ADVANCE AND EVER ADVANCING MITSUBISHI ELECTRIC

CE

MITSUBISHI ELECTRIC

SPLIT-TYPE, HEAT PUMP AIR CONDITIONERS

2000

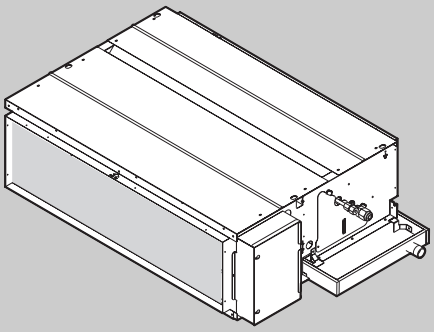
TECHNICAL & SERVICE MANUAL

Series PEHD Ceiling Concealed

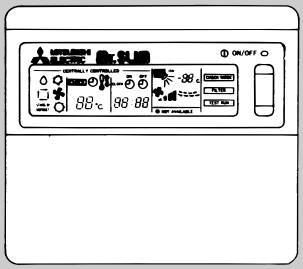
<indoor unit> Service ref.

Models PEHD-1.6EKA$_2$.UK
PEHD-1.6EKHA$_2$.UK
PEHD-2EKA$_2$.UK
PEHD-2EKHA$_2$.UK
PEHD-2.5EKA$_2$.UK
PEHD-2.5EKHA$_2$.UK

This manual does not cover the following outdoor units. When servicing them, please refer to the service manual No.OC150A and this manual as a set.
PUH-1.6VKA$_3$.UK
PUH-2VKA$_2$.UK
PUH-2.5VKA$_2$.UK



INDOOR UNIT



REMOTE CONTROLLER

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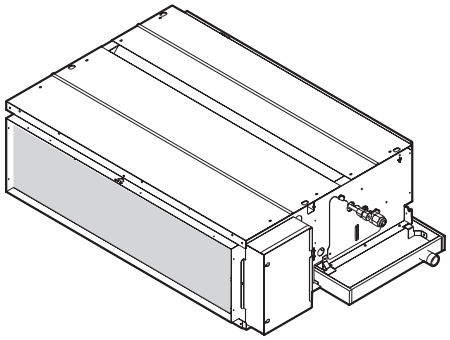
The Slim Line.
From Mitsubishi Electric

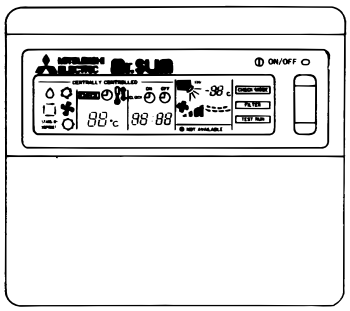
Mr.SLIM™

1 FEATURES

Series PEHD Ceiling Concealed



Indoor unit



Remote controller

Models	Cooling capacity / Heating capacity (240V)	
	Btu/h(with heater)	W(with heater)
PEHD-1.6EK(H)A2	15,000/15,700(19,100)	4,400/4,600(5,600)
PEHD-2EK(H)A2	19,100/21,500(24,900)	5,600/6,300(7,300)
PEHD-2.5EK(H)A2	23,200/24,600(29,700)	6,800/7,200(8,700)

1. NEXT GENERATION AIR-CONDITIONING VENTILATION INTERLOCKING SYSTEM "Mr.SLIM" + "LOSSNAY"

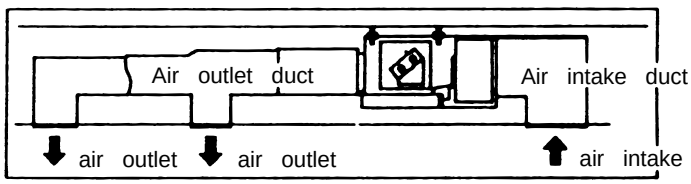
Proper ventilation is important to improve the quality of indoor environments. It eliminates unclean air, which is not only unpleasant, but unhealthy. This "Mr.SLIM" + "LOSSNAY" ventilation interlocking system achieves high air quality with minimum energy consumption.
LOSSNAY's unique total heat exchanger reduces heating and cooling expenses by about 25 percent annually(in comparison with our existing models). In addition, its mechanism of simultaneous forced air supply and exhaust enables it to deliver high quality air.
Together, "Mr.SLIM" + "LOSSNAY" system makes next-generation air conditioning possible. This system is both people and environment friendly.

2. TOTALLY INVISIBLE INDOOR UNIT BEHIND THE CEILING

The totally hidden indoor unit that lies above the ceiling surface enables you to utilize full floor space while allowing for flexible interior design. This new feature is recommended for stores and offices where the user's own imagination is allowed to be incorporated.

3. MOST SUITABLE FOR SIMULTANEOUS TWO ROOM AIR CONDITIONING

Using air ducts for cooling/heating airflow that matches the structure and purpose of the room enables you to provide two air outlets for simultaneous cooling/heating of two rooms.



4. HIGH EXTERNAL STATIC PRESSURE

The exceptional external static pressure of 70Pa allows long ducts to be used more extensively to achieve convenient location of indoor units.(The factory setting is 30Pa.)

5. DRAIN WATER LIFT-UP MECHANISM(OPTION KIT)

This allows more versatility when selecting drain piping layouts.

6. ADVANCED MICROPROCESSOR

(1) Easy to use microprocessor

1) Ultra-thin remote controller

The streamlined, square controller is designed to blend well with any interior. Also, the sophisticated micro-processor allows you to easily carry out a wide range of operations.

2) Attractive liquid crystal display (LCD)

The unit's operation mode, set temperature, room temperature, timer setting, and fan speed are displayed on the remote controller's easy-to-read Liquid Crystal Display (LCD)

3) Convenient 24-hour ON-OFF timer

The timer switches Mr.SLIM on and off automatically at the time you set. Once the timer is set, the remaining time is shown on the LCD.

4) Self-diagnostic feature indicates faults instantly

If a problem occurs, the unit will stop operating and the set temperature indicator will change to a self-diagnostic indicator, which shows the location of the trouble.

If the check switch is pressed twice, the unit stops operating and the check mode is initiated. The location of the most recent problem that was stored in the memory is displayed on the LCD. This is extremely useful for maintenance purposes.

5) Useful memory feature for storing instructions

The previous set value is memorized so that constant temperature control can be achieved. For example, if a power failure occurs, the temperature will not have to be re adjusted afterwards.

(2) Non-polar two-wire remote controller cable

The slim, non-polar, two-wire remote controller cable makes installation simple and trouble free. Also, the remote controller wire can be extended up to 500m.

(3) Automatic cooling/heating changeover operation

An automatic cooling and heating changeover operation system allows you to easily control comfortable year-round air conditioning.

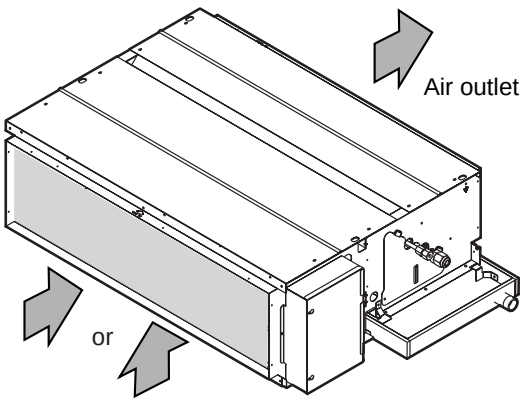
Once the desired temperature is set, unit operation switches automatically between cooling and heating, in accordance with the room temperature. In addition, the use of an outdoor unit fan speed controller allows cooling even when outdoor temperatures are as low as - 5˚C.

7. INNOVATIVE MICROPROCESSOR CONTROL SYSTEM

The most significant feature of PEHD-EK series is the advanced microprocessor control. The development of this system is due to the recent world-wide trend in the air conditioning of larger buildings. They are moving away from centralized duct systems to using individual split type units instead. There are a number of reasons for this change. First of all, the duct's costly and troublesome installation is eliminated. Second, the overall air conditioning balance is excellent in split type units. Lastly, the operation costs are low due to the flexible control of each unit. This system was developed exclusively by Mitsubishi Electric because of high demand. The microprocessor control makes individual control, group control, control using two remote controllers, and remote on/off and individual control possible without troublesome equipment modifications.

2 PART NAMES AND FUNCTIONS

● Indoor Unit

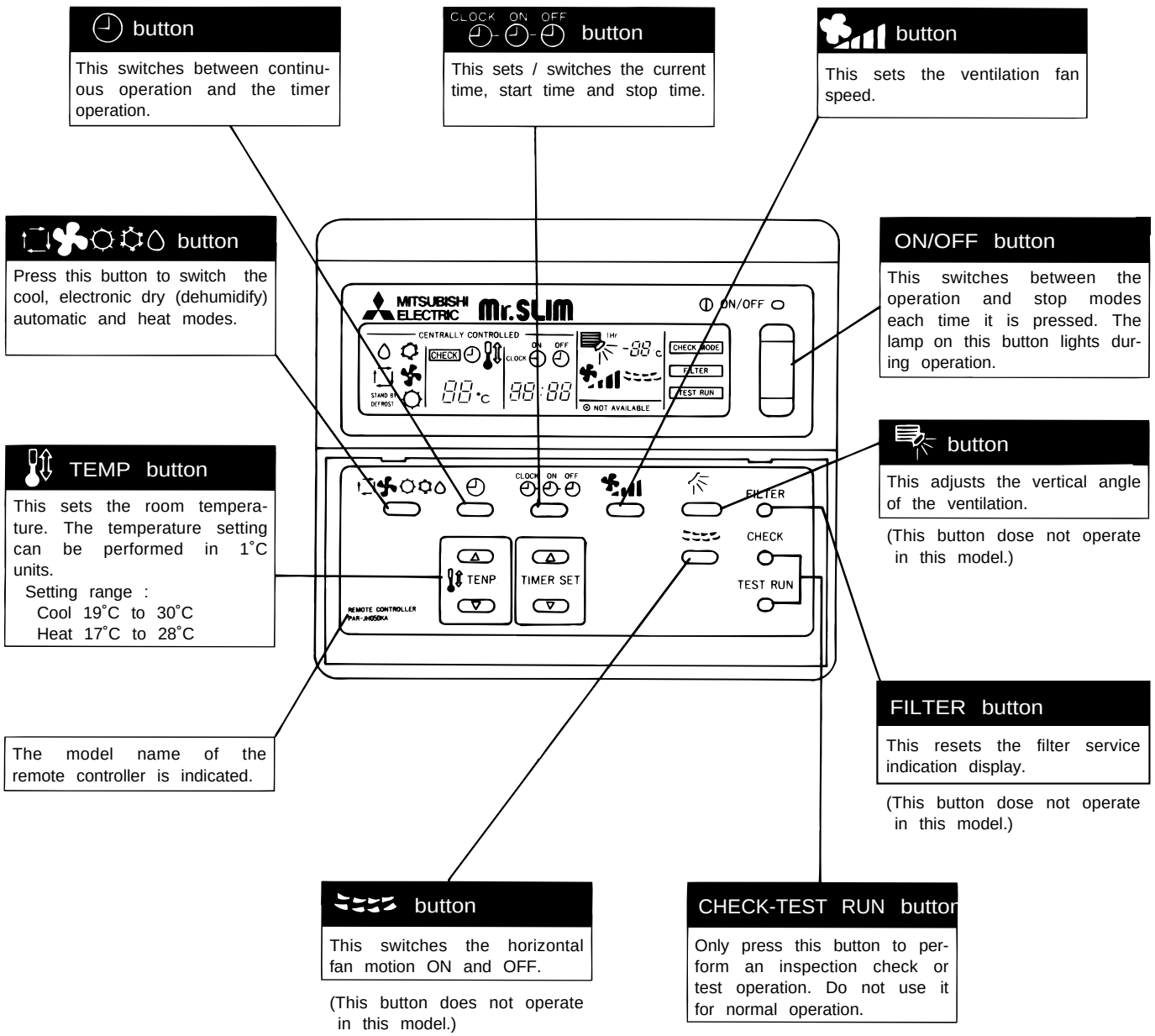


Air intake
(sucks the air from inside the room into the unit)

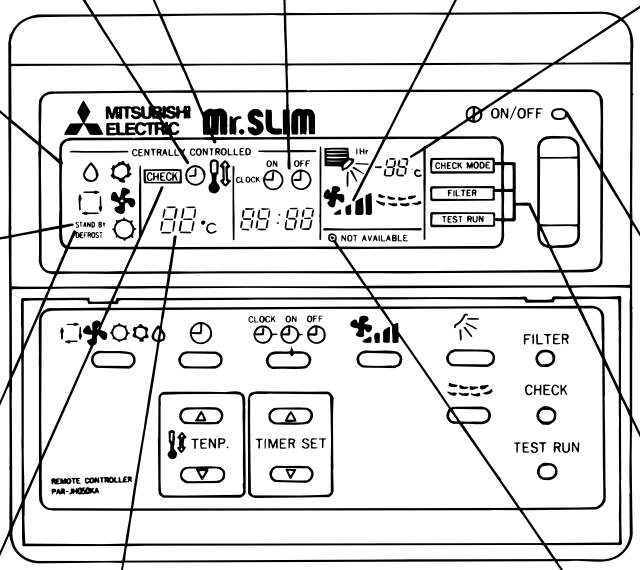
● Remote controller

● Once the operation of the unit is set, subsequent operations can be performed only by pressing the ON/OFF button repeatedly.

● Operation buttons


button
This switches between continuous operation and the timer operation.
CLOCK ON OFF button
This sets / switches the current time, start time and stop time.
button
This sets the ventilation fan speed.
button
Press this button to switch the cool, electronic dry (dehumidify) automatic and heat modes.
ON/OFF button
This switches between the operation and stop modes each time it is pressed. The lamp on this button lights during operation.
TEMP button
This sets the room temperature. The temperature setting can be performed in 1˚C units.
Setting range :
Cool 19˚C to 30˚C
Heat 17˚C to 28˚C
button
This adjusts the vertical angle of the ventilation.
(This button dose not operate in this model.)
The model name of the remote controller is indicated.
FILTER button
This resets the filter service indication display.
(This button dose not operate in this model.)
button
This switches the horizontal fan motion ON and OFF.
(This button does not operate in this model.)
CHECK-TEST RUN button
Only press this button to perform an inspection check or test operation. Do not use it for normal operation.
MITSUBISHI ELECTRIC
Mr.SLIM
ON/OFF
CENTRALLY CONTROLLED
CHECK
CLOCK
ON
OFF
CHECK MODE
FILTER
TEST RUN
NOT AVAILABLE
STAND BY
DEFROST
TEMP
TIMER SET
CHECK
TEST RUN
REMOTE CONTROLLER
PAR-JH05DKA

● Display



CENTRALLY CONTROLLED display

This indicates when the unit is controlled by optinal features such as central control type remote controller.

CLOCK ON OFF display

The current time, start time and stop time can be displayed in tencecond intervals by pressing the time switch button. The start time or stop time is always displayed during the timer operation.

display

This indicates when the continuous operation and time operation modes are set.
It also displays the time for the timer operation at the same time as when it is set.

display

The selected fan speed is displayed.

-88°C display

The temperature of the suction air is displayed during operation. The display range is 8˚C to 39˚C. The display flashes 8˚C when the actual temperature is less then 8˚C and flashes 39˚C when the actual temperature is greater then 39˚C.

OPERATION MODE display

This indicates the operation mode.

STANDBY display

This indicates when the stand by mode is set from the time the sleep operation starts until the heating air discharges.

Operation lamp

This lamp lights during operation, goes off when the unit stops and flashes when a malfunction occurs.

DEFROST display

This indicates when the defrost operation is performed.

CHECK MODE / TEST RUN display

This display lights in the check mode or when a test operation is perfomed.

CHECK display

This indicates when a malfunction has occurred in the unit which should be checked.

-88°C display

This displays the selected setting temperature.

Display

This lamp lights when electricity is supplied to the unit.

Caution

- Only the ⊙ display lights whe the unit is stopped and power is supplied to the unit.
- When power is turned ON for the first time, the (CENTRAL CTRL) display appears to go off momentarily but this is not a malfunction.
- When the central control remote control unit, which is sold separately, is used the ON - OFF button, button and TEMP button do not operate.
- "NOT AVAILABLE" is displayed when the button and button are pressed. This indicates that this room unit is not equipped with the fan direction adjustment function and the louver function.

3 SPECIFICATION

Item \ Model				PEHD-1.6EK(H)A2.UK	
Function				Cooling	Heating
Capacity		✻4	Btu/h	15,000	15,700 (19,100)
			W	4,400	4,600 (5,600)
Total input		✻4	kW	1.57	1.54 (2.54)
INDOOR UNIT	Model name			PEHD-1.6EK(H)A2.UK	
	Power supply			~/N,50Hz, 220-240V	
	Input		kW	0.13	0.13 (1.13)
	Running current		A	0.55	0.55 (4.71)
	Starting current		A	0.92	0.92 (5.08)
	External finish			Galvanized sheets	
	Heat exchanger			Plate fin coil	
	Fan(drive) x No.			Centrifugal (direct)x2	
	Fan motor output		kW	✻1 0.043	
	Airflow(Low-High)		CMM,(CFM)	11-14 (388-494)	
	External static pressure		Pa(mmAq)	✻2 30(3)/70(7) at Hi-notch	
	Booster heater		kW	1.0	
	Operation control & Thermostat			Remote control & Built-in	
	Noise level(Low-High)	✻5	dB(A)	✻3 34-38	
	Cond.drain conn.O.D.		mm,(in)	32 (1-1/4)	
	Dimensions	W	mm,(in)	935 (36-13/16)	
		D	mm,(in)	700 (27-9/16)	
		H	mm,(in)	295 (11-5/8)	
	Weight		kg,(lbs)	33 (73) [35 (77)]	
OUTDOOR UNIT	Model name			PUH-1.6VKA3	
	Power supply			~/N, 220-240V ,50Hz	
	Input		kW	1.44	1.41
	Running current		A	6.74	6.60
	Starting current		A	33	33
	External finish			Munsell 5Y7/1	
	Refrigerant control			Capillary tube	
	Compressor			Hermetic	
	Model			RH247VFCT	
	Motor output		kW	1.2	
	Stater type			Line start	
	Protection devices			Inner thermostat,HP switch	
	Heat exchanger			Plate fin coil	
	Fan(drive) x No.			Propeller (direct)x1	
	Fan motor output		kW	0.065	
	Airflow		CMM,(CFM)	45 (1590)	
	Defrost method			Reverse cycle	
	Noise level		dB(A)	49	
	Dimensions	W	mm,(in)	870 (34-1/4)	
		D	mm,(in)	295+24 (11-5/8 add 1)	
		H	mm,(in)	650 (25-5/8)	
	Weight		kg,(lbs)	53 (117)	
REFRIGERANT PIPING	Refrigerant			R-22	
	Charge		kg,(lbs)	2.2 (4.8)	
	Pipe size O.D.	Liquid	mm,(in)	9.52 (3/8)	
		Gas	mm,(in)	15.88 (5/8)	
	Connection method	Indoor side		Flared	
		Outdoor side		Flared	
	Between the indoor & outdoor unit	Height difference		Max.40m	
		Piping length		Max.40m	

✻1. External static pressure at 70Pa
✻2. Ex-works at 30Pa
✻3. External static pressure at 30Pa
✻4. Rating conditions <JIS B 8615, 8616>
(INDOOR) Cooling: 27˚CDB, 19˚CWB Heating: 20˚CDB
(OUTDOOR) Cooling: 35˚CDB Heating: 7˚CDB, 6˚CWB
✻5. Noise level: Sound pressure level

Item \ Model				PEHD-2EK(H)A2.UK	
Function				Cooling	Heating
Capacity		✻4	Btu/h	19,100	21,500 (24,900)
			W	5,600	6,300 (7,300)
Total input		✻4	kW	2.35	2.37 (3.37)
INDOOR UNIT	Model name			PEHD-2EK(H)A2.UK	
	Power supply			~/N, 50Hz, 220-240V	
	Input		kW	0.15	0.15 (1.15)
	Running current		A	0.63	0.63 (4.79)
	Starting current		A	1.1	1.1 (5.26)
	External finish			Galvanized sheets	
	Heat exchanger			Plate fin coil	
	Fan(drive) x No.			Centrifugal (direct)x2	
	Fan motor output		kW	✻1 0.076	
	Airflow(Low-High)		CMM,(CFM)	13.5-17 (476-600)	
	External static pressure		Pa(mmAq)	✻2 30(3) / 70(7) at Hi-notch	
	Booster heater		kW	1.0	
	Operation control & Thermostat			Remote control & Built-in	
	Noise level(Low-High)	✻5	dB(A)	✻3 36-40	
	Cond.drain conn.O.D.		mm,(in)	32 (1-1/4)	
	Dimensions	W	mm,(in)	935 (36-13/16)	
		D	mm,(in)	700 (27-9/16)	
		H	mm,(in)	295 (11-5/8)	
	Weight		kg,(lbs)	33 (73) [35(77)]	
OUTDOOR UNIT	Model name			PUH-2VKA2	
	Power supply			~/N, 220-240V, 50Hz	
	Input		kW	2.20	2.22
	Running current		A	9.86	9.95
	Starting current		A	45	45
	External finish			Munsell 5Y7/1	
	Refrigerant control			Capillary tube	
	Compressor			Hermetic	
	Model			NH38VMDT	
	Motor output		kW	1.7	
	Stater type			Line start	
	Protection devices			Inner thermostat, HP switch	
	Heat exchanger			Plate fin coil	
	Fan(drive) x No.			Propeller (direct) x1	
	Fan motor output		kW	0.065	
	Airflow		CMM,(CFM)	45 (1590)	
	Defrost method			Reverse cycle	
	Noise level		dB(A)	49	
	Dimensions	W	mm,(in)	870 (34-1/4)	
		D	mm,(in)	295+24 (11-5/8 and 1)	
		H	mm,(in)	650 (25-5/8)	
	Weight		kg,(lbs)	64 (141)	
REFRIGERANT PIPING	Refrigerant			R-22	
	Charge		kg,(lbs)	2.2 (4.8)	
	Pipe size O.D.	Liquid	mm,(in)	9.52 (3/8)	
		Gas	mm,(in)	15.88 (5/8)	
	Connection method	Indoor side		Flared	
		Outdoor side		Flared	
	Between the indoor & outdoor unit	Height difference		Max.40m	
		Piping length		Max.40m	

✻1. External static pressure at 70Pa
✻2. Ex-works at 30Pa
✻3. External static pressure at 30Pa
✻4. Rating conditions <JIS B 8615, 8616>
(INDOOR) Cooling: 27˚CDB, 19˚CWB Heating: 20˚CDB
(OUTDOOR) Cooling: 35˚CDB Heating: 7˚CDB, 6˚CWB
✻5. Noise level: Sound pressure level

Item			Model	PEHD-2.5EK(H)A2.UK	
Function				Cooling	Heating
Capacity		✻4	Btu/h	23,200	24,600 (29,700)
			W	6,800	7,200 (8,700)
Total input		✻4	kW	2.63	2.40 (3.90)
INDOOR UNIT	Model name			PEHD-2.5EK(H)A2.UK	
	Power supply			~/N, 50Hz, 220-240V	
	Input		kW	0.17	0.17 (1.67)
	Running current		A	0.72	0.72 (6.96)
	Starting current		A	1.6	1.6 (7.84)
	External finish			Galvanized sheets	
	Heat exchanger			Plate fin coil	
	Fan(drive) x No.			Centrifugal (direct)x2	
	Fan motor output		kW	✻1 0.116	
	Airflow(Low-High)		CMM,(CFM)	17-21 (600-740)	
	External static pressure		Pa(mmAq)	✻2 30(3) /70(7) at Hi-notch	
	Booster heater		kW	1.5	
	Operation control & Thermostat			Remote control & Built-in	
	Noise level(Low-High)	✻5	dB(A)	✻3 37-41	
	Cond.drain conn.O.D.		mm,(in)	32 (1-1/4)	
	Dimensions	W	mm,(in)	1,175 (46-1/8)	
		D	mm,(in)	700 (27-9/16)	
		H	mm,(in)	295 (11-5/8)	
	Weight		kg,(lbs)	42(93) [44(97)]	
OUTDOOR UNIT	Model name			PUH-2.5VKA2	
	Power supply			~/N, 220-240V, 50Hz	
	Input		kW	2.46	2.23
	Running current		A	10.68	9.78
	Starting current		A	52	52
	External finish			Munsell 5Y7/1	
	Refrigerant control			Capillary tube	
	Compressor			Hermetic	
	Model			NH41VMDT	
	Motor output		kW	2	
	Stater type			Line start	
	Protection devices			Internal thermostat, HP switch	
	Heat exchanger			Plate fin coil	
	Fan(drive) x No.			Propeller(direct)x1	
	Fan motor output		kW	0.085	
	Airflow		CMM,(CFM)	50	
	Defrost method			Reverse cycle	
	Noise level		dB(A)	52	
	Dimensions	W	mm,(in)	870 (34-1/4)	
		D	mm,(in)	295+24 (11-5/8 add 1)	
		H	mm,(in)	650 (25-5/8)	
	Weight		kg,(lbs)	68 (150)	
REFRIGERANT PIPING	Refrigerant			R-22	
	Charge		kg,(lbs)	2.8 (6.2)	
	Pipe size O.D.	Liquid	mm,(in)	9.52 (3/8)	
		Gas	mm,(in)	15.88 (5/8)	
	Connection method	Indoor side		Flared	
		Outdoor side		Flared	
	Between the indoor & outdoor unit	Height difference		Max.50m	
		Piping length		Max.50m	

✻ 1. External static pressure at 70Pa
✻ 2. Ex-works at 30Pa
✻ 3. External static pressure at 30Pa
✻ 4. Rating conditions < JIS B 8615, 8616>
(INDOOR) Cooling: 27˚CDB, 19˚CWB Heating: 20˚CDB
(OUTDOOR) Cooling: 35˚CDB Heating: 7˚CDB, 6˚CWB
✻ 5. Noise level: Sound pressure level

4 DATA

1. PERFORMANCE DATA

1) COOLING CAPACITY

Service Ref.	Indoor intake air WB˚C	Outdoor intake air DB˚C											
		20		25		30		35		40		45	
		CA	P.C.	CA	P.C.	CA	P.C.	CA	P.C.	CA	P.C.	CA	P.C.
PEHD-1.6EK(H)A2.UK	16	4,479	1.35	4,356	1.41	4,180	1.51	3,991	1.61	3,793	1.71	3,590	1.36
	18	4,765	1.38	4,642	1.44	4,453	1.55	4,259	1.65	4,057	1.76	3,850	1.46
	20	5,056	1.40	4,937	1.46	4,743	1.58	4,541	1.69	4,334	1.80	4,123	1.57
	22	5,350	1.43	5,249	1.49	5,047	1.61	4,840	1.73	4,629	1.85	4,409	1.67
PEHD-2EK(H)A2.UK	16	5,701	2.16	5,544	2.26	5,320	2.41	5,079	2.58	4,827	2.74	4,570	2.18
	18	6,065	2.21	5,909	2.30	5,667	2.47	5,421	2.64	5,163	2.81	4,901	2.34
	20	6,434	2.24	6,283	2.34	6,037	2.52	5,779	2.70	5,516	2.88	5,247	2.50
	22	6,810	2.28	6,681	2.39	6,423	2.58	6,160	2.77	5,891	2.96	5,611	2.68
PEHD-2.5EK(H)A2.UK	16	6,922	2.51	6,732	2.62	6,460	2.80	6,168	2.99	5,862	3.18	5,549	2.53
	18	7,364	2.56	7,175	2.67	6,882	2.87	6,582	3.07	6,270	3.26	5,951	2.71
	20	7,813	2.60	7,630	2.71	7,330	2.93	7,018	3.14	6,698	3.35	6,372	2.91
	22	8,269	2.65	8,112	2.77	7,800	2.99	7,480	3.21	7,154	3.44	6,814	3.11

Note C A: Capacity(W)
P.C.: Power consumption(kW)

Cooling capacity correction factors

Service Ref.	Refrigerant piping length(one way)									
	5m	10m	15m	20m	25m	30m	35m	40m	45m	50m
PEHD-1.6EK(H)A2.UK	1.00	0.993	0.984	0.978	0.969	0.961	0.956	0.948	-	-
PEHD-2EK(H)A2.UK	1.00	0.992	0.983	0.978	0.966	0.959	0.950	0.945	-	-
PEHD-2.5EK(H)A2.UK	1.00	0.989	0.980	0.970	0.960	0.950	0.940	0.930	0.920	0.910

2) HEATING CAPACITY

Service Ref.	Indoor intake air WB˚C	Outdoor intake air DB˚C											
		-10		-5		0		5		10		15	
		CA	P.C.	CA	P.C.	CA	P.C.	CA	P.C.	CA	P.C.	CA	P.C.
PEHD-1.6EK(H)A2.UK	15	3,192	1.14	3,643	1.25	4,136	1.37	4,669	1.49	5,240	1.63	5,846	2.11
	20	3,054	2.22	3,500	1.34	3,979	1.47	4,494	1.61	5,042	1.76	5,626	2.03
	25	2,940	1.30	3,358	1.43	3,822	1.58	4,328	1.72	4,876	1.88	5,460	1.97
PEHD-2EK(H)A2.UK	15	4,372	1.80	4,990	1.97	5,664	2.17	6,395	2.37	7,176	2.58	8,007	3.34
	20	4,183	1.93	4,794	2.13	5,450	2.33	6,155	2.55	6,905	2.78	7,705	3.21
	25	4,026	2.06	4,599	2.27	5,235	2.50	5,928	2.73	6,678	2.98	7,478	3.12
PEHD-2.5EK(H)A2.UK	15	4,996	1.87	5,703	2.05	6,473	2.25	7,309	2.46	8,201	2.68	9,151	3.47
	20	4,780	2.01	5,479	2.21	6,229	2.42	7,035	2.65	7,892	2.89	8,805	3.34
	25	4,601	2.14	5,256	2.36	5,983	2.59	6,775	2.84	7,632	3.09	8,547	3.24

Note C A : Capacity(W)
P.C.: Power consumption(kW)

Heating capacity correction factors

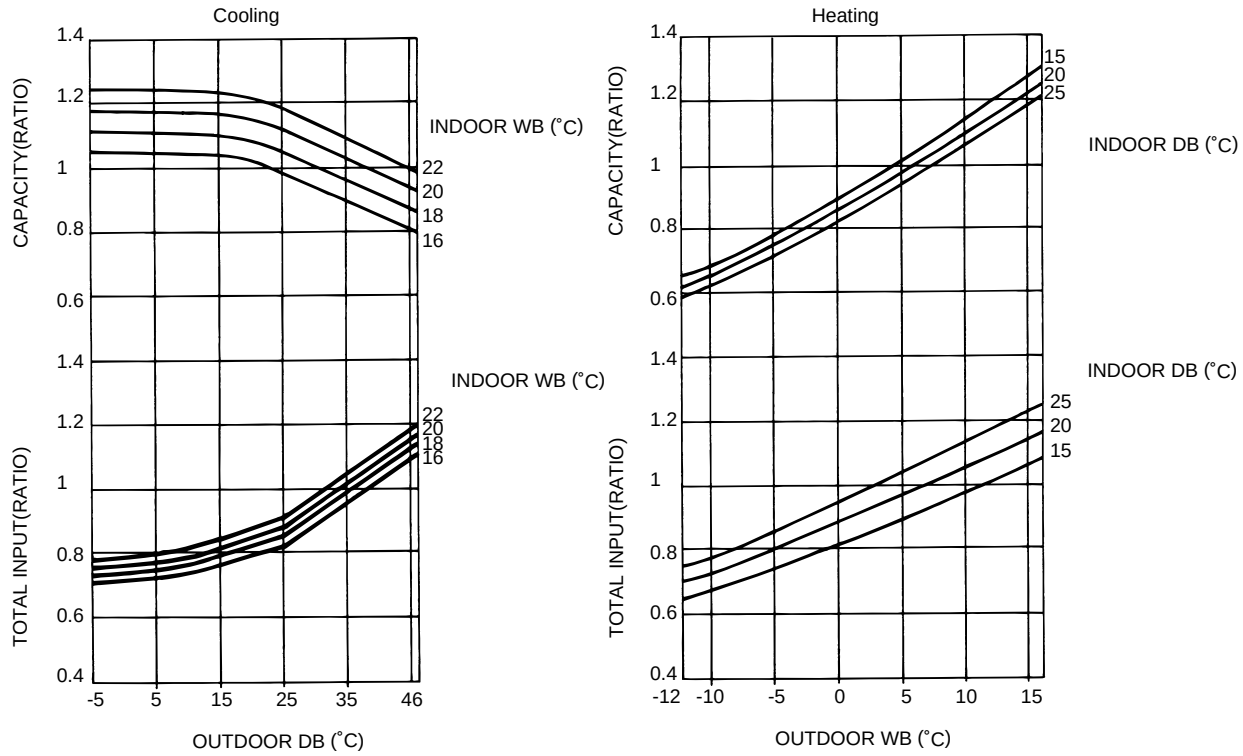
Service Ref.	Refrigerant piping length(one way)									
	5m	10m	15m	20m	25m	30m	35m	40m	45m	50m
PEHD-1.6EK(H)A2.UK	1.00	1.00	1.00	1.00	1.00	1.00	0.998	0.995	-	-
PEHD-2EK(H)A2.UK	1.00	1.00	1.00	1.00	1.00	1.00	0.998	0.995	-	-
PEHD-2.5EK(H)A2.UK	1.00	1.00	1.00	1.00	1.00	1.00	0.998	0.995	0.993	0.990

2. PERFORMANCE CURVE

PEHD-1.6EK(H)A2.UK

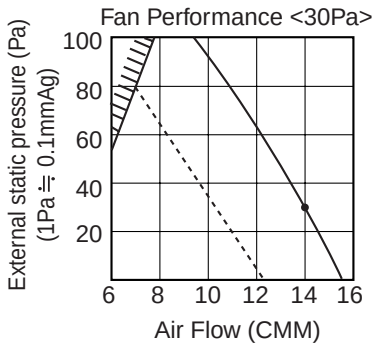
PEHD-2EK(H)A2.UK

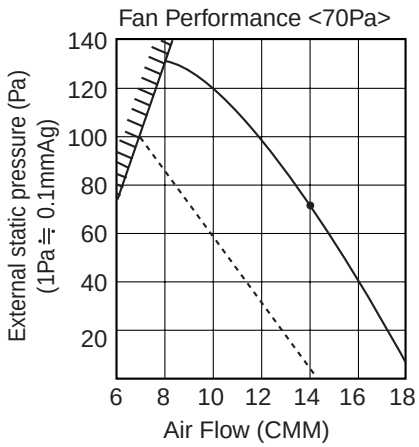
PEHD-2.5EK(H)A2.UK

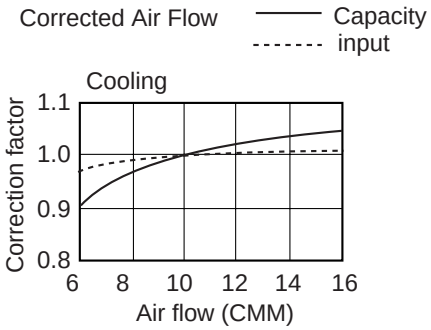


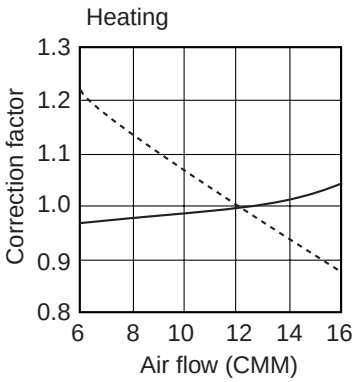
3. FAN PERFORMANCE AND CORRECTED AIR FLOW

PEHD-1.6EK(H)A2.UK

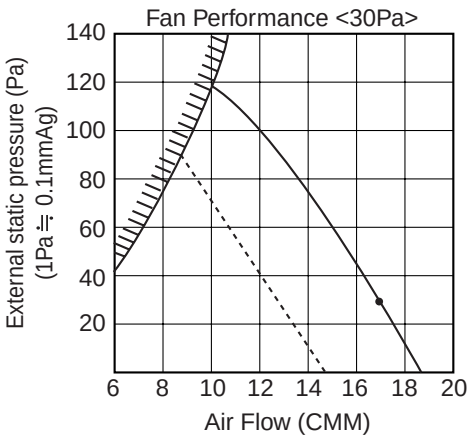


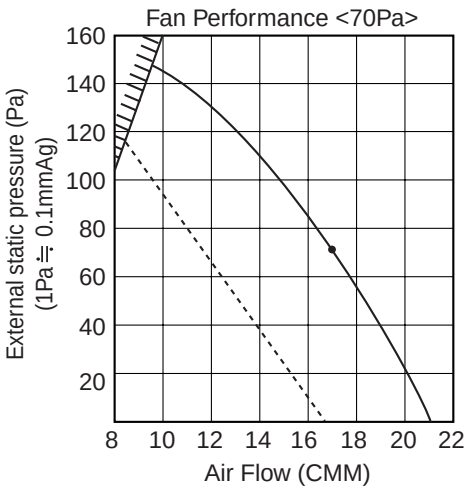


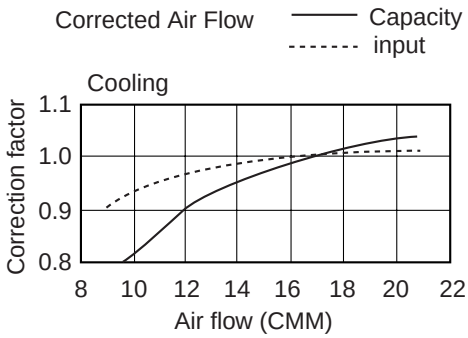


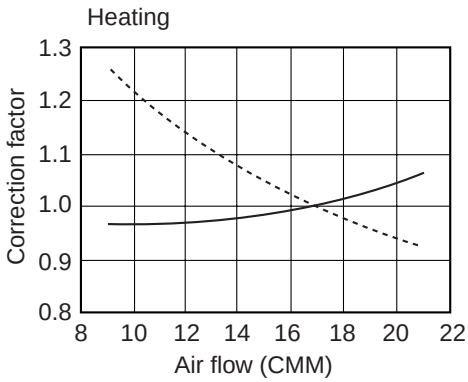


PEHD-2EK(H)A2.UK

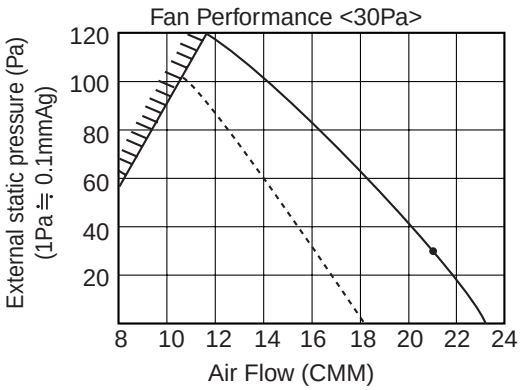


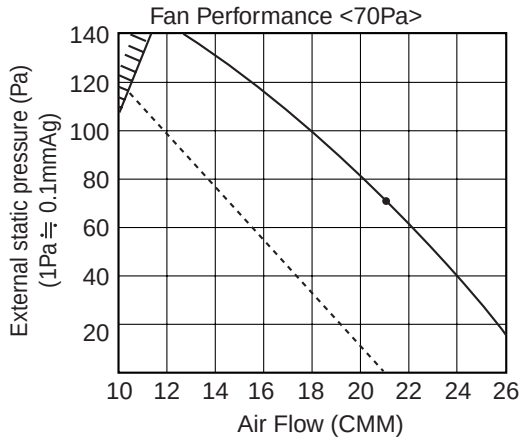


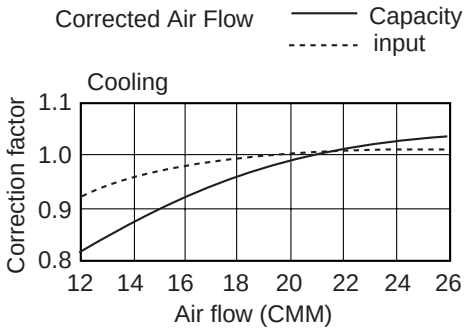


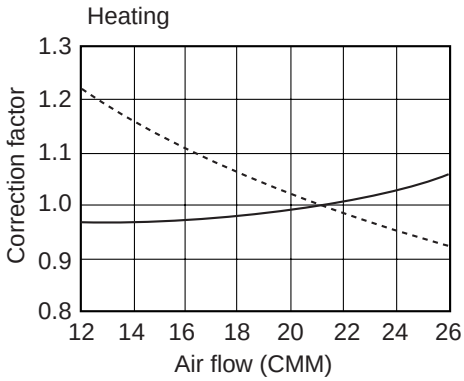


PEHD-2.5EK(H)A2.UK









4. ELECTRICAL DATA

Indoor ·····220V 50Hz 1phase
Outdoor ··· 220V 50Hz 1phase

Models		Indoor	PEHD-1.6EK(H)A_2.UK		PEHD-2EK(H)A_2.UK		PEHD-2.5EK(H)A_2.UK	
		Outdoor	PUH-1.6VKA		PUH-2VKA		PUH-2.5VKA	
Mode			Cool	Heat	Cool	Heat	Cool	Heat
Capacity(W)			4,300	4,500 (5,350)	5,500	6,100 (6,950)	6,600	7,100 (8,350)
Total input(kW)			1.48	1.44 (2.29)	2.25	2.27 (3.12)	2.56	2.31 (3.56)
Indoor	Input(kW)		0.12	0.12 (0.97)	0.13	0.13 (0.98)	0.15	0.15 (1.40)
	Current(A)		0.55	0.55 (4.41)	0.60	0.60 (4.45)	0.69	0.69 (6.36)
	Starting current(A)		0.92	0.92 (4.76)	1.05	1.05 (4.89)	1.53	1.53 (7.16)
Outdoor	Input(kW)		1.36	1.32	2.12	2.14	2.41	2.16
	Current(A)		6.79	6.59	9.83	9.93	11.18	10.02
	Starting current(A)		30	30	41	41	48	48

Indoor ·····230V 50Hz 1phase
Outdoor··· 230V 50Hz 1phase

Models		Indoor	PEHD-1.6EK(H)A_2.UK		PEHD-2EK(H)A_2.UK		PEHD-2.5EK(H)A_2.UK	
		Outdoor	PUH-1.6VKA		PUH-2VKA		PUH-2.5VKA	
Mode			Cool	Heat	Cool	Heat	Cool	Heat
Capacity(W)			4,350	4,550 (5,450)	5,550	6,200 (7,100)	6,700	7,150 (8,550)
Total input(kW)			1.53	1.49 (2.39)	2.30	2.32 (3.22)	2.60	2.36 (3.76)
Indoor	Input(kW)		0.13	0.13 (1.03)	0.14	0.14 (1.04)	0.16	0.16 (1.56)
	Current(A)		0.55	0.55 (4.48)	0.61	0.61 (4.52)	0.70	0.70 (6.78)
	Starting current(A)		0.92	0.92 (4.83)	1.07	1.07 (4.96)	1.56	1.56 (7.64)
Outdoor	Input(kW)		1.40	1.36	2.16	2.18	2.44	2.20
	Current(A)		6.76	6.57	9.78	9.87	10.94	9.86
	Starting current(A)		32	32	43	43	50	50

Indoor·····240V 50Hz 1phase
Outdoor··· 240V 50Hz 1phase

Models		Indoor	PEHD-1.6EK(H)A_2.UK		PEHD-2EK(H)A_2.UK		PEHD-2.5EK(H)A_2.UK	
		Outdoor	PUH-1.6VKA		PUH-2VKA		PUH-2.5VKA	
Mode			Cool	Heat	Cool	Heat	Cool	Heat
Capacity(W)			4,400	4,600 (5,600)	5,600	6,300 (7,300)	6,800	7,200 (8,700)
Total input(kW)			1.57	1.54 (2.54)	2.35	2.37 (3.37)	2.63	2.40 (3.90)
Indoor	Input(kW)		0.13	0.13 (1.13)	0.15	0.15 (1.15)	0.17	0.17 (1.67)
	Current(A)		0.55	0.55 (4.71)	0.63	0.63 (4.79)	0.72	0.72 (6.96)
	Starting current(A)		0.92	0.92 (5.08)	1.10	1.10 (5.26)	1.60	1.60 (7.84)
Outdoor	Input(kW)		1.44	1.41	2.20	2.22	2.46	2.23
	Current(A)		6.74	6.60	9.86	9.95	10.68	9.78
	Starting current(A)		33	33	45	45	52	52

5. STANDARD OPERATION DATA

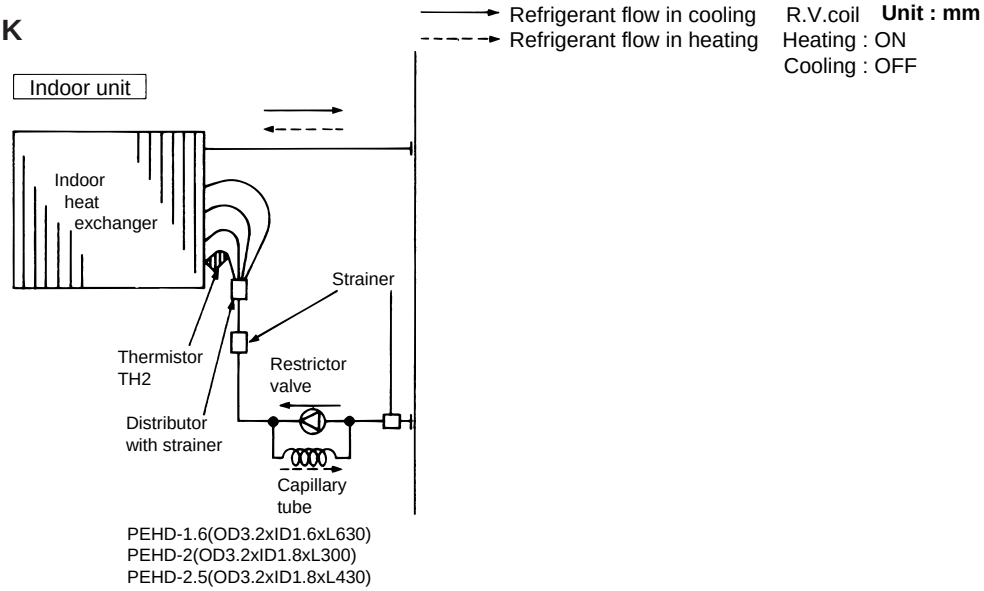
Models			PEHD-1.6EK(H)A2.UK		PEHD-2EK(H)A2.UK		PEHD-2.5EK(H)A2.UK	
Mode			Cooling	Heating	Cooling	Heating	Cooling	Heating
Total	Capacity	W	4,400	4,600	5,600	6,300	6,800	7,200
	Input	kW	1.57	1.54	2.35	2.37	2.63	2.40
Electrical circuit	Indoor unit model		PEHD-1.6EK(H)A		PEHD-2EK(H)A		PEHD-2.5EK(H)A	
	Phase . Hz		1, 50		1, 50		1, 50	
	Volts		240		240		240	
	Amperes		0.55	0.55	0.63	0.63	0.72	0.72
	Outdoor unit-model		PUH-1.6VKA		PUH-2VKA		PUH-2.5VKA	
	Phase,Hz		1, 50		1, 50		1, 50	
	Volts		240		240		240	
	Amperes		6.74	6.6	9.86	9.95	10.68	9.78
Refrigerant circuit	Discharge pressure	MPa	1.76	1.51	1.93	2.15	2.05	1.65
	Suction pressure	MPa	0.54	0.41	0.47	0.37	0.52	0.37
	Discharge temperature	˚C	76.6	66.8	87.3	101.4	85	73.8
	Condensing temperature	˚C	47.1	-	51.2	-	53.7	-
	Suction temperature	˚C	8	0.2	4.8	-2.1	7.4	-2.4
	Ref.Pipe length	m	5	5	5	5	5	5
Indoor side	Intake air temperature	DB˚C	27.0	20.0	27.0	20.0	27.0	20.0
		WB˚C	19.0	15.0	19.0	15.0	19.0	15.0
	Discharge air temperature	DB˚C	15.4	35.1	14.5	40.4	14.7	39.1
Outdoor side	Intake air temperature	DB˚C	35.0	7.0	35.0	7.0	35.0	7.0
		WB˚C	24.0	6.0	24.0	6.0	24.0	6.0
SHF			0.74	-	0.76	-	0.76	-
BF			0.21	-	0.19	-	0.19	-

5 REFRIGERANT SYSTEM DIAGRAM

PEHD-1.6EK(H)A2.UK

PEHD-2EK(H)A2.UK

PEHD-2.5EK(H)A2.UK

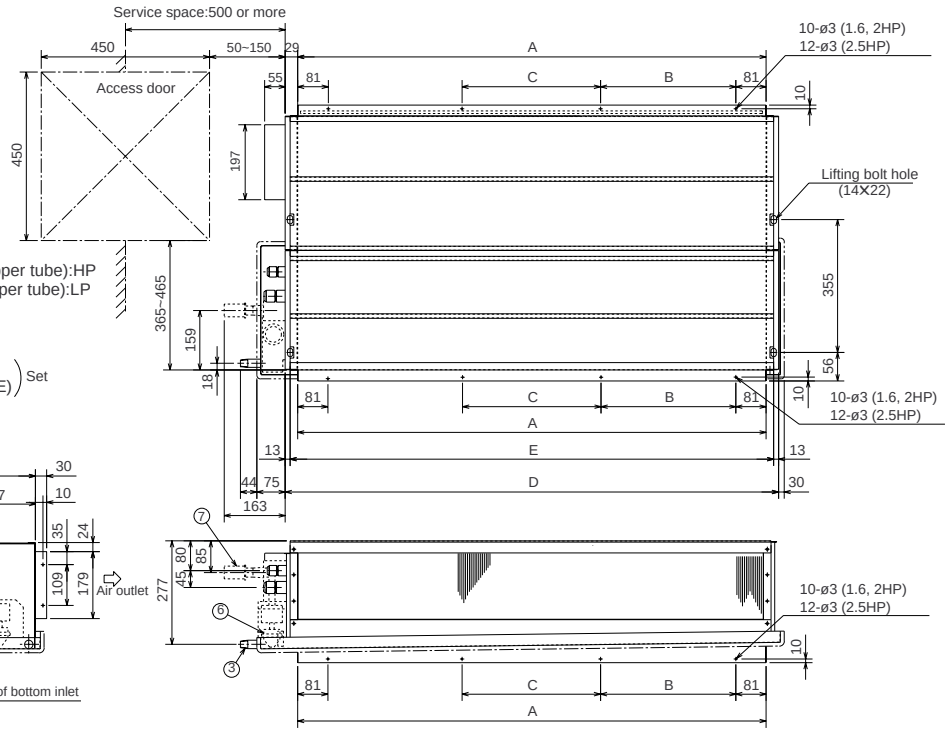


6 OUTLINES & DIMENSIONS

1. INDOOR UNIT

PEHD-1.6EK(H)A2.UK
PEHD-2EK(H)A2.UK
PEHD-2.5EK(H)A2.UK

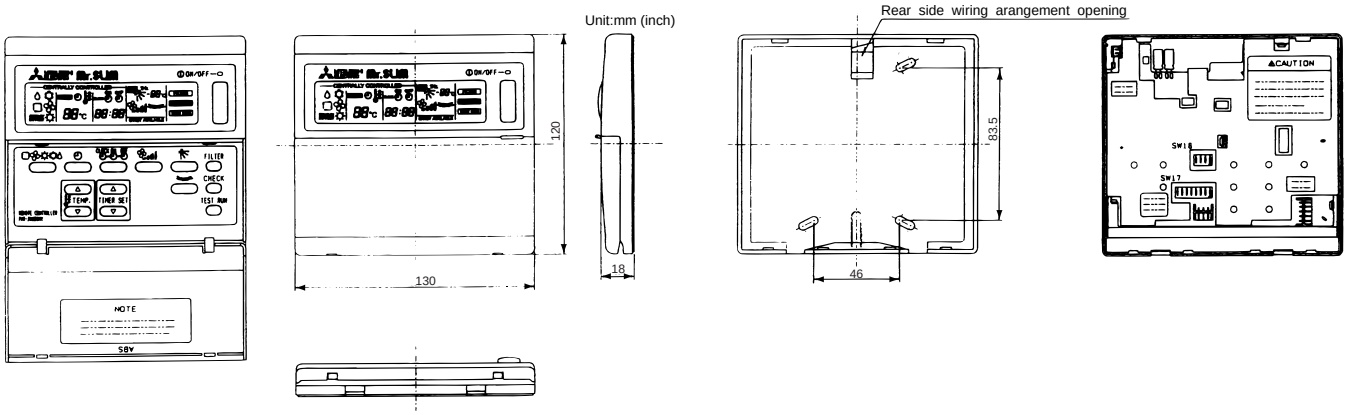
Model	A	B	C	D	E
PE(H)D-1.6,2	772	305	-	830	804
PE(H)D-2.5	1012	280	290	1070	1044



① Refrigerant piping flare connection (liquid ø9.52 copper tube):HP
② Refrigerant piping flare connection (gas ø15.88 copper tube):LP
③ Drain R1(External thread)
④ Electrical parts box
⑤ Electric Heater···Only PEHD-EKHA Type
⑥ Drain Pump (Option)
⑦ Drain Pipe (Option)···Use VP25(O.D.ø32 PVC TUBE) } Set
⑧ Filter

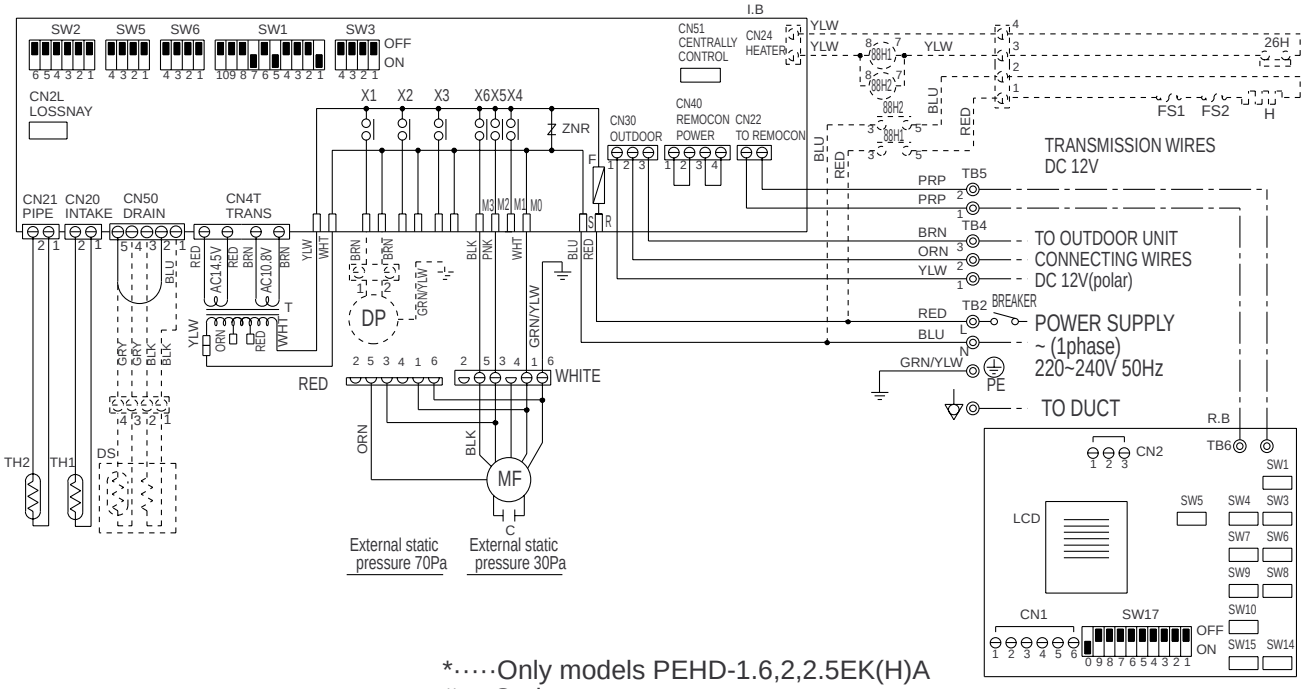
Keep duct-work length 850mm or more.
Be sure to apply the air filter (field supply) near the air inlet grille.

2. REMOTE CONTROLLER



7 WIRING DIAGRAM

MODELS:PEHD-1.6,2,2.5EK(H)A2 WIRING DIAGRAM



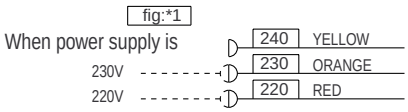
*·····Only models PEHD-1.6,2,2.5EK(H)A
#····Option parts

SYMBOL EXPLANATION

SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
C	Capacitor(fan motor)	SW1(R.B)	Switch(ON/OFF)	TB4	Terminal block (indoor/outdoor connecting line)
CN1<R.B>	Connector(program timer)	SW3(R.B)	Switch(cooling/drying operation mode)	TB5, TB6	Terminal block (remote controller transmission line)
CN2<R.B>	Connector(remote switch)	SW4(R.B)	Switch(automatic operation mode)	TH1	Thermistor (room temperature sensor 0˚C/15kΩ.25˚C/5.4kΩ)
CN2L<R.B>	Connector(lossnay)	SW5(R.B)	Switch(heatihg operation mode)	TH2	Thermistor (pipe temperature sensor 0˚C/15kΩ.25˚C/5.4kΩ)
CN51<R.B>	Connector(centrally control)	SW6(R.B)	Switch(lowers set temperature)	X1(I.B)	Auxiliary relay (drain pump)
F<I.B>	Fuse<6.3A>	SW7(R.B)	Switch(raises set temperature)	X4(I.B)	Auxiliary relay (fan motor)
* FS1,FS2	Thermal fuse(10A)	SW8(R.B)	Switch(timer time)	X5(I.B)	Auxiliary relay (fan motor)
* H	Electric heater	SW9(R.B)	Switch(timer.continuous and ON/OFF)	X6(I.B)	Auxiliary relay (fan motor)
I.B	Indoor controller board	SW10(R.B)	Switch(fan speed high/low selector)	ZNR	Varistor
LCD	Liquid crystal display	SW14(R.B)	Switch(test run)	* 26H	Thermal switch(over heat prevention)
R.B	Remote controller board	SW15(R.B)	Switch(inspection)	* 88H1	Contactor(electric heater)
SW1(I.B)	Switch(mode selector)	SW17(R.B)	Switch(address selector)	* 88H2	Contactor(electric heater)
SW2(I.B)	Switch(address selector)	T	Transformer	CN50	Drain sensor connector
SW3(I.B)	Switch(emergency operation)	TB2	Terminal block(power)	# DP	Drain pump
SW5(I.B)	Switch(model selector)	MF	Fan motor(with inner thermostat)	# DS	Drain sensor
SW6(I.B)	Switch(model selector)				

NOTES

1.Since the indoor transfomer(T) is connected with 240V power. if 220,230V power is used. Change the wiring connection showihg fig: *1



2. Since the outdoor side electric wiring may change be sure to check the outdoor unit electric wiring for servicing.
3. Indoor and outdoor connecting wires are made with palarities make wiring matching terminal.
4. Symbols used in circuit diagram above are, ◎:Terminal block, ⏀:connector, ▯ :PC board insertion tab.
5. Emergency operation
   If a trouble occurs with either the remote controller or the indoor microcomputer and no other trouble exists,emergency operation for cooling or heating can be performed by changing the setting of dip switch(SW3<I.B>)on the indoor controller board (emergency dry operation is not possible).

[Check items]

(1) Make sure that no other trouble exists with the outdoor unit.
Trouble with the outdoor unit prevents emergency operation.
(If any trouble exists with the outdoor unit, the trouble location will be displayed on the remote controller and the trouble position will be shown on the outdoor controller board LED.See electric circuit diagram of the outdoor unit for details.)

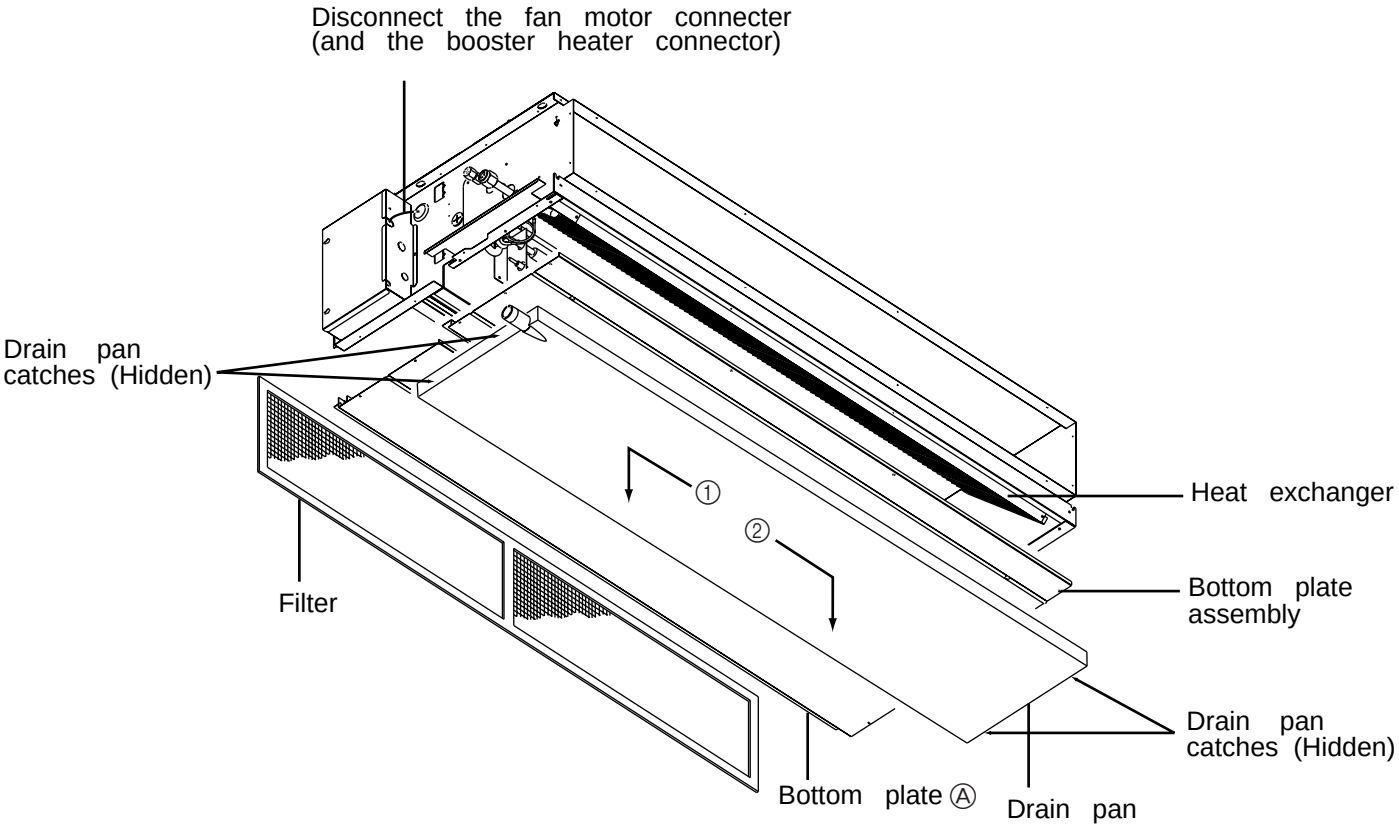
(2) Make sure that there is no trouble with the indoor fan.
Emergency operation will be a continuous run with the power ON/OFF(ON/OFFwith the remote controller is not possible).

[Emergency operation procedure]

(1) Set the dip switch(SW3<I.B>)on the indoor controller board to 1·2·3 on and 4 off for cooling, and 2·3·4 on and 1 off for heating.
(2) Turn on the outdoor unit side circuit breaker.
(3) During emergency operation indoor fan runs at High speed.
(4) Thermostat will not function. Cold air blows out for defrosting during heating thus do not operate de frosting for a long time.
(5) Emergency cooling should be limited to 10 hours maximum(the indoor unit heat exchanger may freeze).

8 DISASSEMBLY INSTRUCTIONS

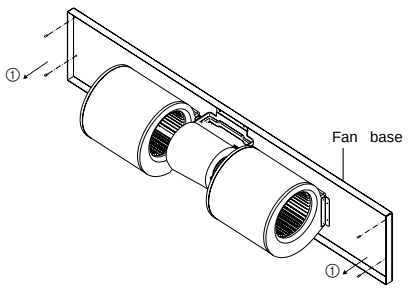
Figure1.



Ⅰ. Removing the fan motor

1. Removing the 9 screws that fix the bottom plate Ⓐ, and remove it.
2. Removing the drain pan as follows:
   (1) Remove the screw that fixes the drain pan.
   (2) Slide the drain pan in the direction ①, Figure1 and unhook the drain pan catch near the drain pipe.
   (3) Slide the drain pan in the direction ②, Figure1 and unhook the 2 catches on the other side of the drain pipe.
3. Remove the 8 screws that fix the bottom plate assembly, and remove it.
4. Disconnect the fan motor connector from the controller box.
   (For the models with booster heater, disconnect the booster heater connector as well.)
5. Remove the fan plate as follow:

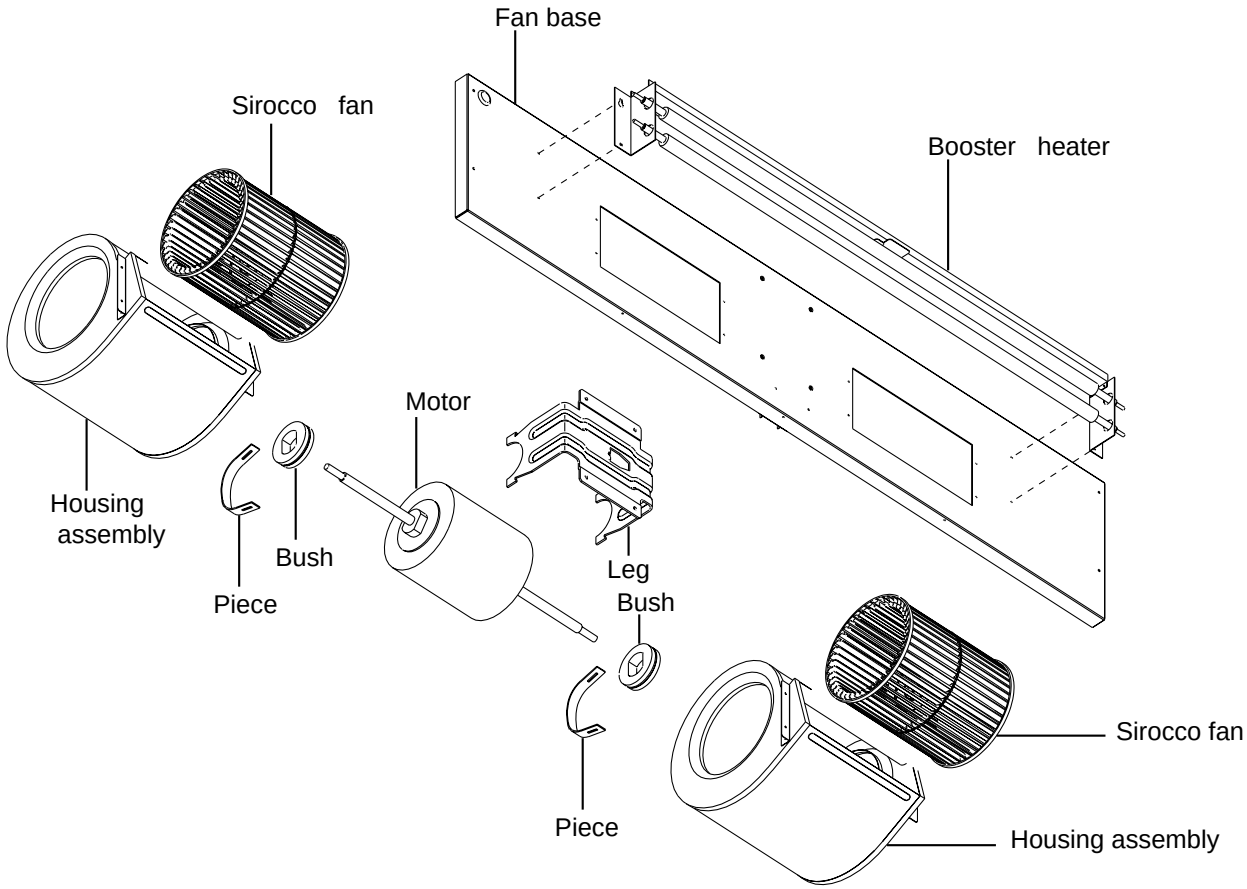
Figure2.



(1)Remove the 4 screws①
(2)Slide down the fan plate to remove.

6. Remove the sirocco fan setting screw and the motor fixture setting screw to remove the motor fixture.
   Remove the other motor fixture as well, and then remove the fan motor.

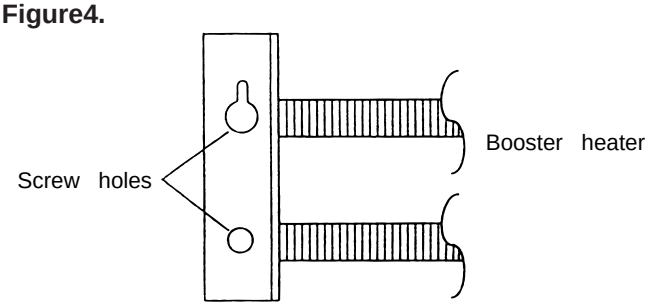
Figure3.

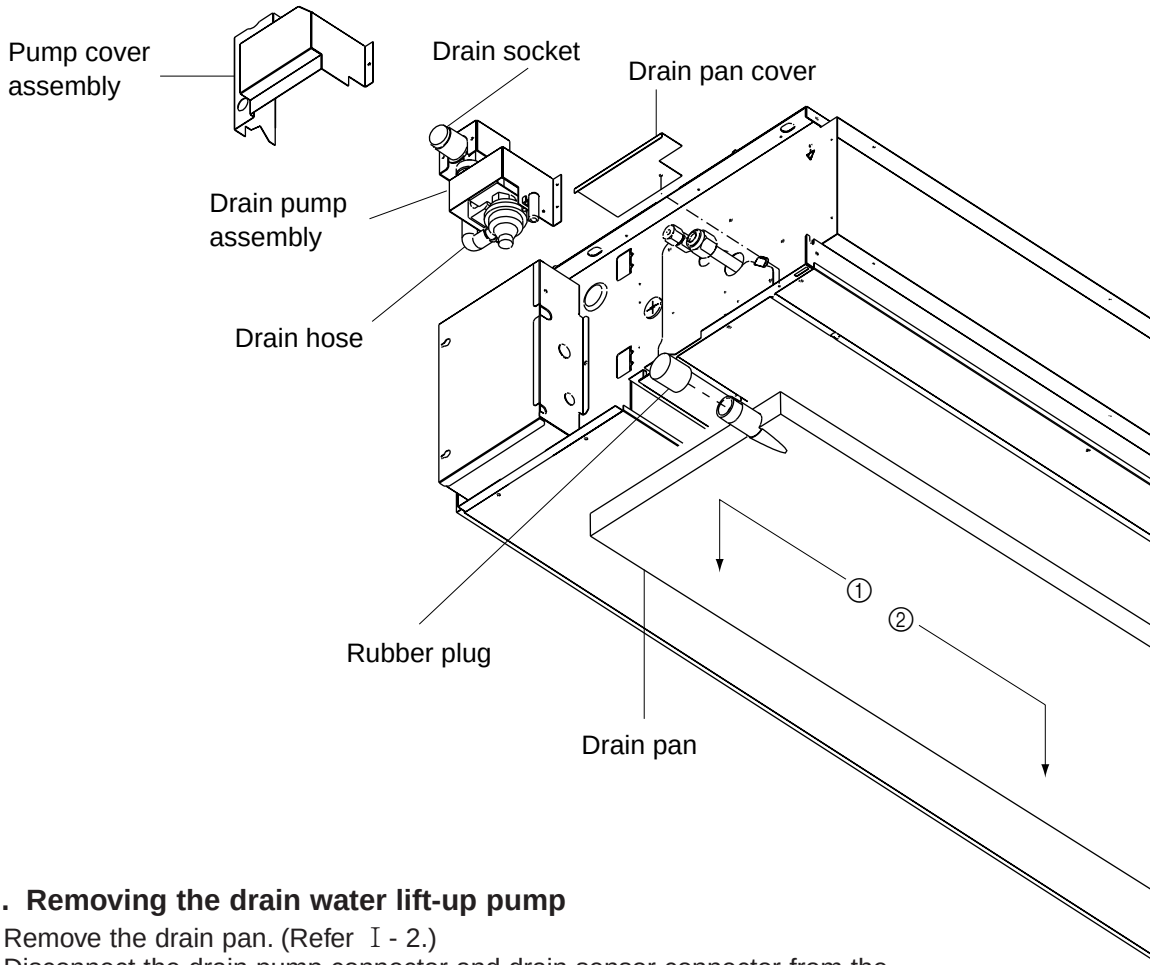


Ⅱ. Removing the booster heater

1. Remove the bottom plate, drain pan, and bottom plate assembly. (Refer Ⅰ-1~3.)
2. Disconnect the booster heater connector from the controller box.
3. Remove the 2 lower screws on the both sides of the booster heater.
4. Loosen the 2 upper screws on the both sides of the booster heater.
5. Removing the booster heater.

Figure4.





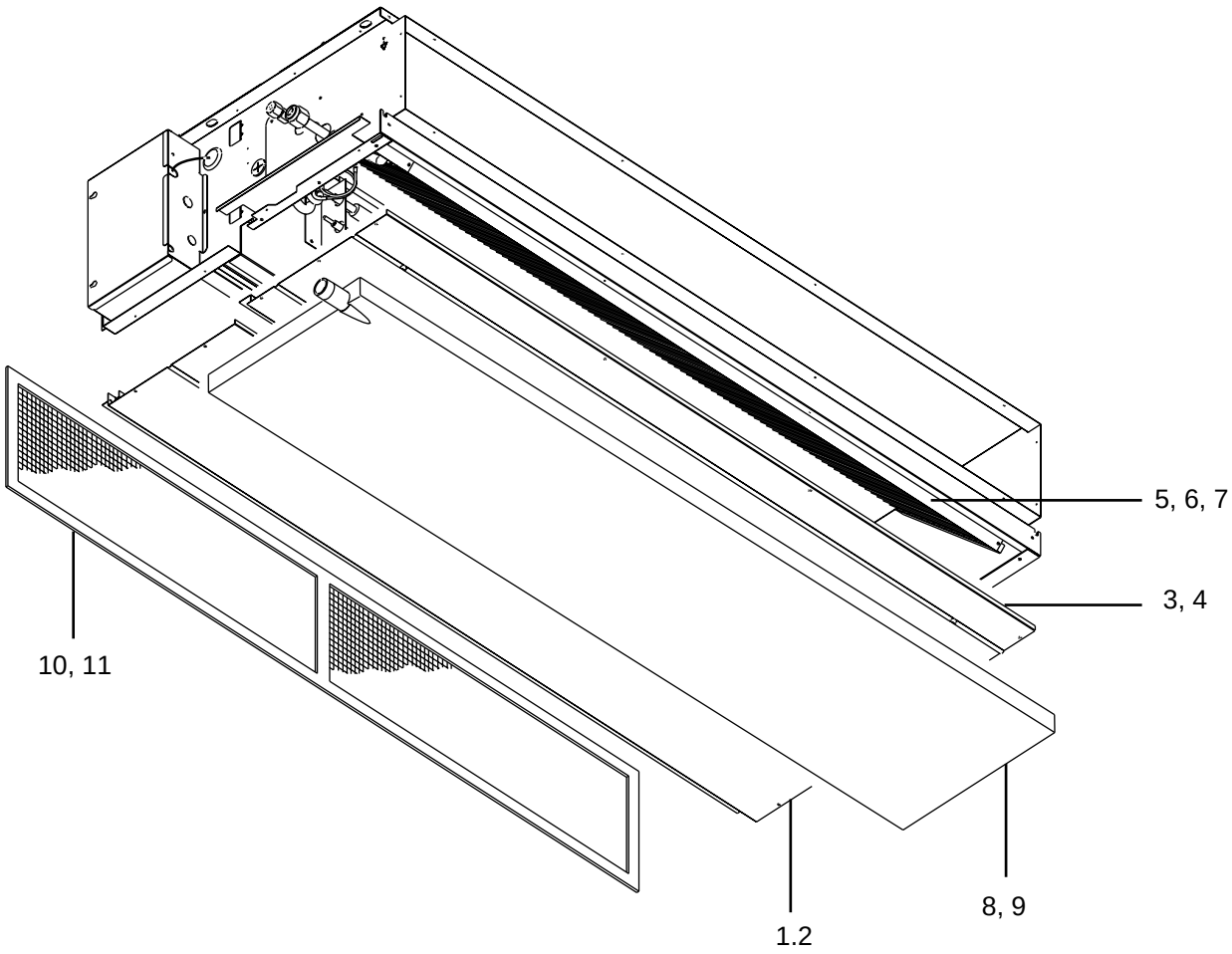
Ⅲ. Removing the drain water lift-up pump

1. Remove the drain pan. (Refer Ⅰ- 2.)
2. Disconnect the drain pump connector and drain sensor connector from the controller box.
3. Remove the two screws of the pump cover assembly.
4. Remove the drain hose from drain socket.
5. Remove the three screws of the drain pump assembly.
6. Remove the earth screw and four nuts of the drain pump assembly.
7. Remove the drain pump from drain pump assembly.

9 PARTS LIST

PEHD-1.6EKA2.UK, PEHD-1.6EKHA2.UK
PEHD-2EKA2.UK, PEHD-2EKHA2.UK
PEHD-2.5EKA2.UK, PEHD-2.5EKHA2.UK

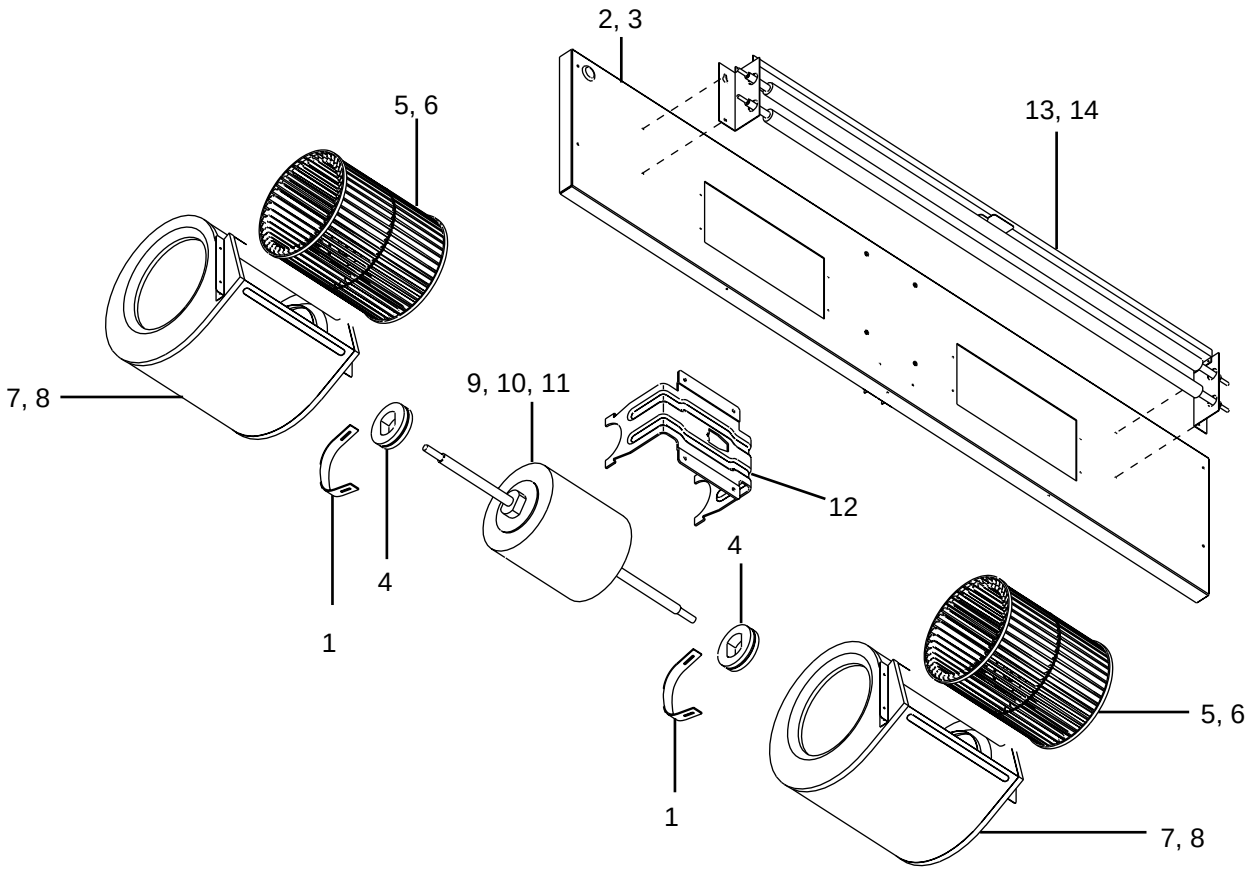
EXTERNAL PARTS



No.	Part No.	Part Name	Drawing No.	Qt'y/set								Spec.
				PEHD-1.6EKA2	PEHD-1.6EKHA2	PEHD-2EKA2	PEHD-2EKHA2	PEHD-2.5EKA2	PEHD-2.5EKHA2			
1	S70 031 669	Bottom plate 1	W638939Z03	1	1	1	1					
2	S70 011 669	Bottom plate 1	W638917Z03					1	1			
3	S70 081 669	Bottom plate 2 ass'y	W638940G02	1	1	1	1					
4	S70 091 669	Bottom plate 2 ass'y	W638918G02					1	1			
5	S70 017 480	H.EX.General ass'y	W268511G01	1	1							
6	S70 018 480	H.EX.General ass'y	W268511G02			1	1					
7	S70 019 480	H.EX.General ass'y	W268511G03					1	1			
8	S70 011 529	Drain pan ass'y	W638942G01	1	1	1	1					
9	S70 021 529	Drain pan ass'y	W638920G01					1	1			
10	S70 021 500	Filter	W638181G01	1	1	1	1					
11	S70 031 500	Filter	W638181G02					1	1			

PEHD-1.6EKA2.UK, PEHD-1.6EKHA2.UK
PEHD-2EKA2.UK, PEHD-2EKHA2.UK
PEHD-2.5EKA2.UK, PEHD-2.5EKHA2.UK

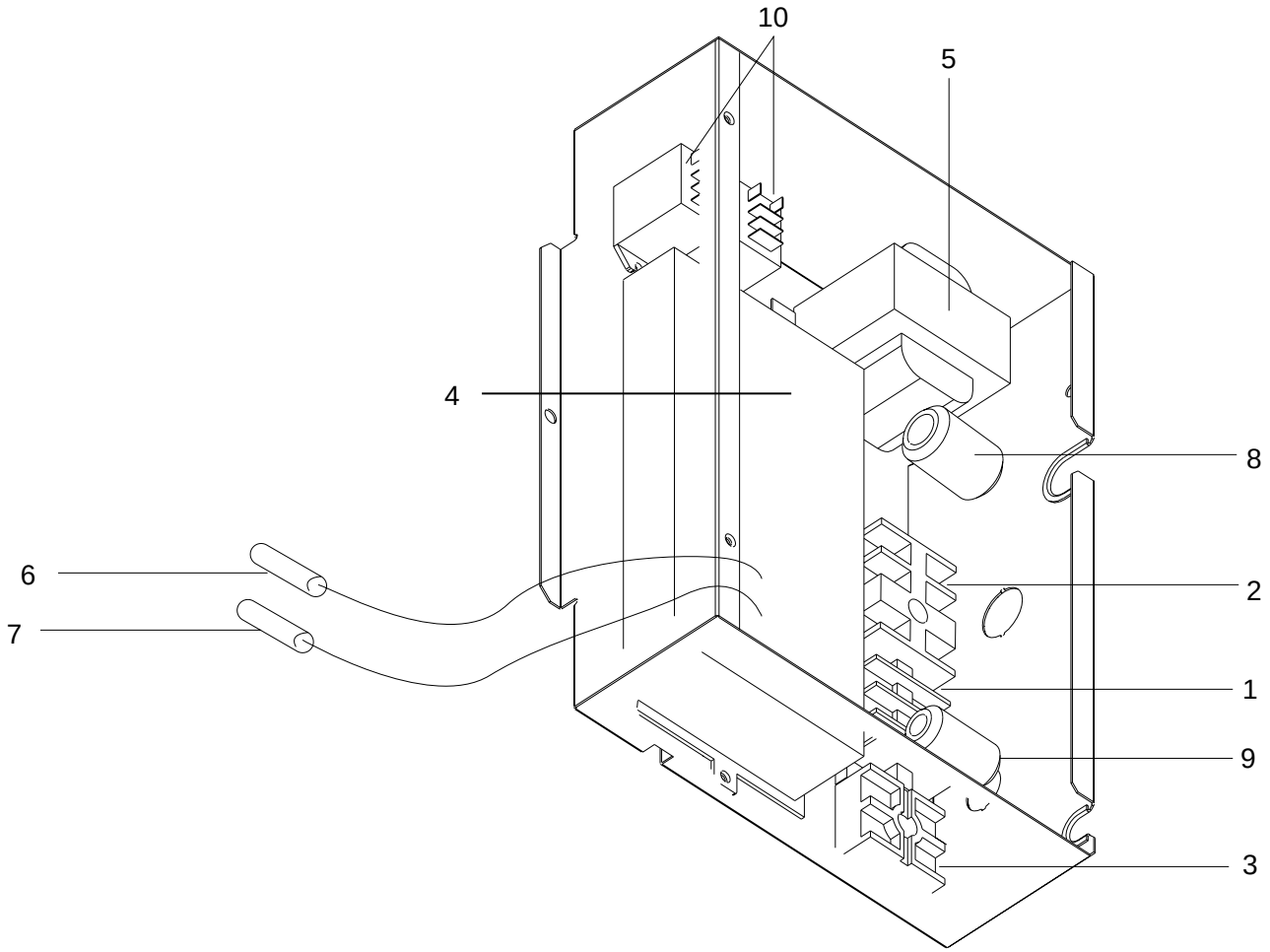
BLOWER PARTS



No.	Part No.	Part Name	Drawing No.	Qt'y/set								
				PEHD-1.6EKA2	PEHD-1.6EKHA2	PEHD-2EKA2	PEHD-2EKHA2	PEHD-2.5EKA2	PEHD-2.5EKHA2			
1	S70 652 131	Attachment	W353715H01	2	2	2	2	2	2			
2	S70 051 677	Fan base ass'y	W638932G02	1	1	1	1					
3	S70 061 677	Fan base ass'y	W638905G02					1	1			
4	S70 922 105	Bush	W818836H01	2	2	2	2	2	2			
5	S70 A88 114	Sirocco fan	W122296G01	2	2	2	2					
6	S70 A89 114	Sirocco fan	W122297G01					2	2			
7	S70 989 110	Housing ass'y	W638949G03	2	2	2	2					
8	S70 985 110	Housing ass'y	W638949G04					2	2			
9	S70 Y57 220	Motor	P714315X02	1	1							<MF>
10	S70 Y58 220	Motor	P714316X02			1	1					<MF>
11	S70 Y56 221	Motor	P714774X01					1	1			<MF>
12	S70 652 130	Motor support	W241060H03	1	1	1	1	1	1			
13	S70 Y07 300	Heater ass'y 3	P493639X02		1		1					
14	S70 Y03 300	Heater ass'y 4	P493640X02						1			

PEHD-1.6EKA2.UK, PEHD-1.6EKHA2.UK
PEHD-2EKA2.UK, PEHD-2EKHA2.UK
PEHD-2.5EKA2.UK, PEHD-2.5EKHA2.UK

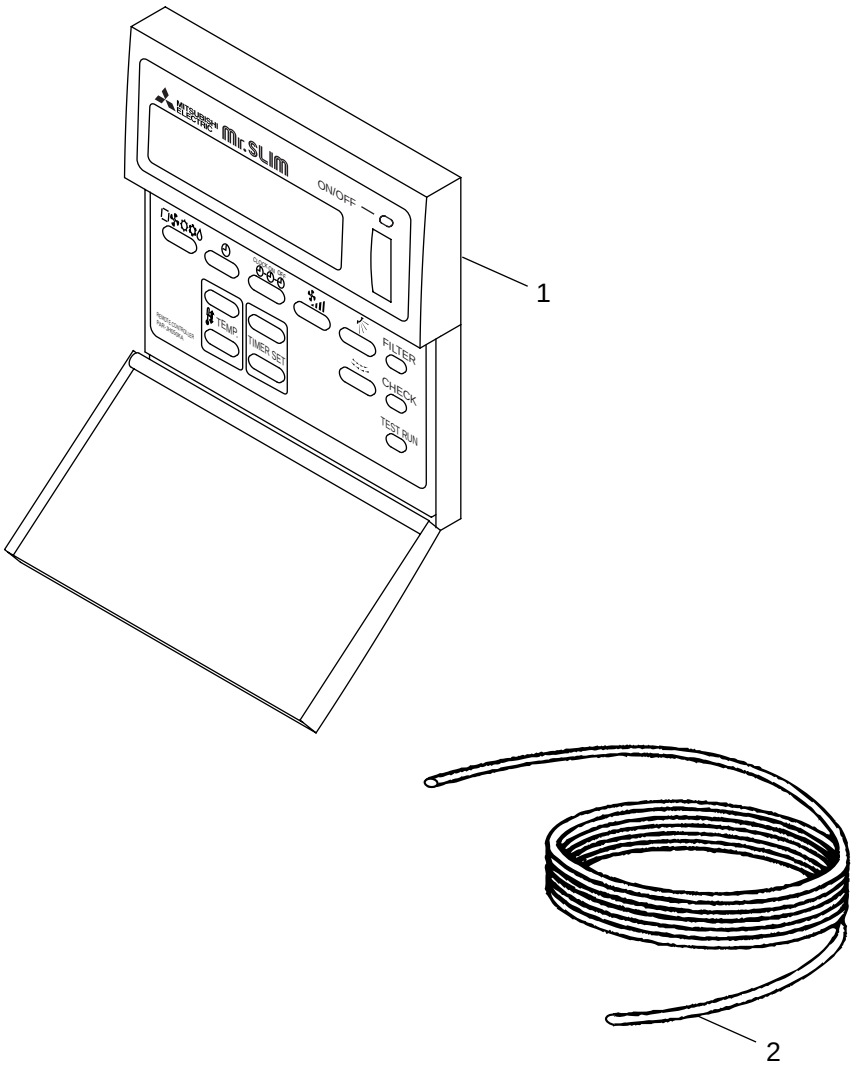
CONTROL BOX PARTS



No.	Part No.	Part Name	Drawing No.	Qt'y/set								Spec.
				PEHD-1.6EKA2	PEHD-1.6EKHA2	PEHD-2EKA2	PEHD-2EKHA2	PEHD-2.5EKA2	PEHD-2.5EKHA2			
1	S70 978 717	Terminalbed	P436109X01	1	1	1	1	1	1			< TB4 >
2	S70 979 717	Terminalbed	P436110X01	1	1	1	1	1	1			< TB2 >
3	S70 435 717	Terminalbed	BA73S950H02	1	1	1	1	1	1			< TB5 >
4	S70 030 310	Controller	RG00C006G02	1	1	1	1	1	1			< I.B >
5	S70 020 799	Transformer work DWG.	W855468G06	1	1	1	1	1	1			< T >
6	S70 030 202	Thermistor S	BG71V163H03	1	1	1	1	1	1			< RT1 >
7	S70 040 202	Thermistor H	BG71V164H08	1	1	1	1	1	1			< RT2 >
8	S70 010 292	Ferrite core	P419114X01	1	1	1	1	1	1			
9	S70 020 292	Ferrite core	P419115X01	1	1	1	1	1	1			
10	S70 274 215	Start relay	P421221X01		2		2		2			LY1F< 88H1,2 >

PEHD-1.6EKA2.UK, PEHD-1.6EKHA2.UK
PEHD-2EKA2.UK, PEHD-2EKHA2.UK
PEHD-2.5EKA2.UK, PEHD-2.5EKHA2.UK

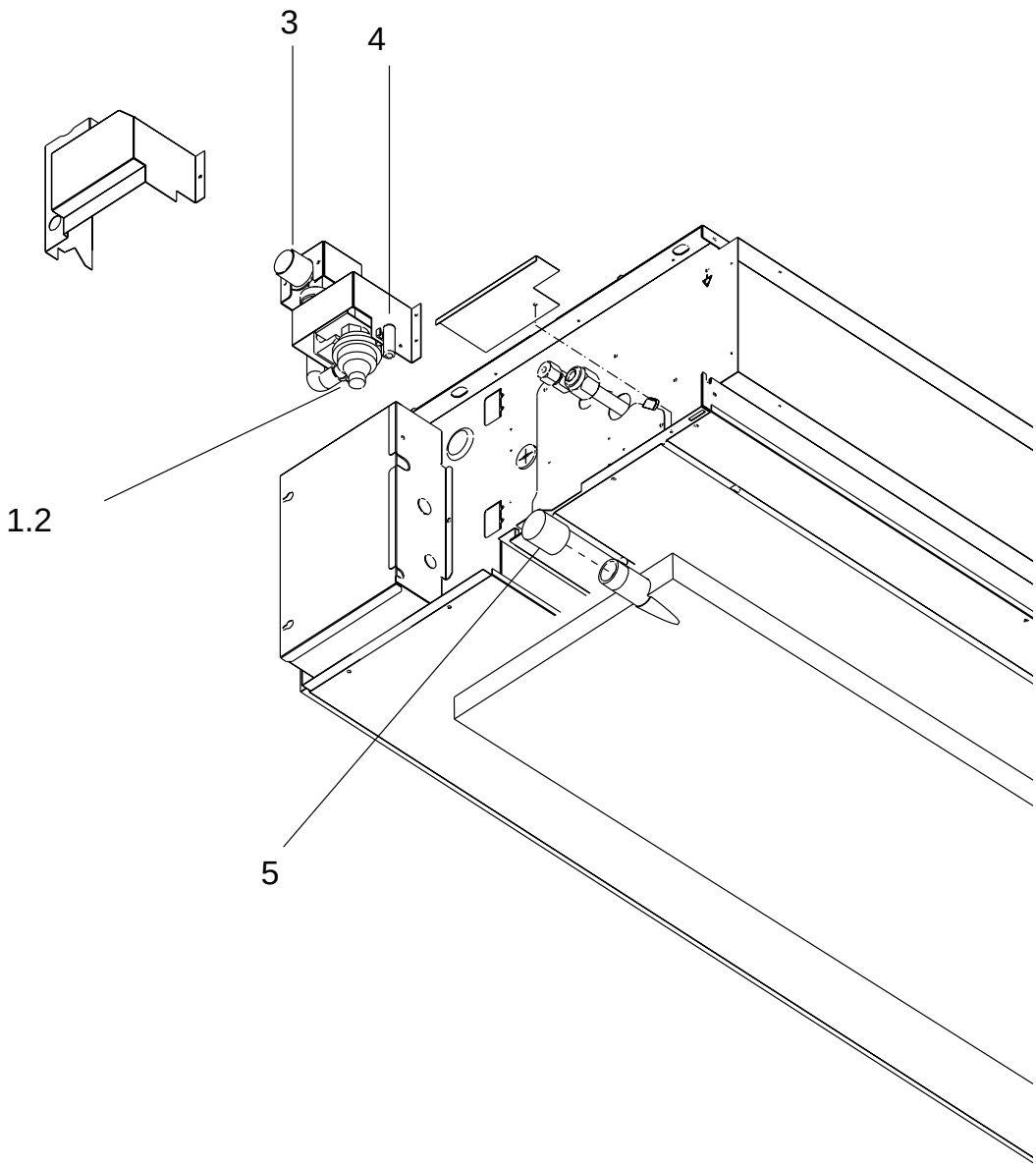
ELECTRICAL PARTS



No.	Part No.	Part Name	Drawing No.	Qt'y/set								Spec.
				PEHD-1.6EKA2	PEHD-1.6EKHA2	PEHD-2EKA2	PEHD-2EKHA2	PEHD-2.5EKA2	PEHD-2.5EKHA2			
1		Remote controller	KA00D026G34	1	1	1	1	1	1			K controller
2		Remote controller cable	BB78K214G05	1	1	1	1	1	1			10m

PEHD-1.6EKA2.UK, PEHD-1.6EKHA2.UK
PEHD-2EKA2.UK, PEHD-2EKHA2.UK
PEHD-2.5EKA2.UK, PEHD-2.5EKHA2.UK

DRAIN WATER LIFT-UP PUMP PARTS (OPTIONAL PARTS)



No.	Part No.	Part Name	Drawing No.	Qt'y/set								Spec.
				PEHD-1.6EKA2	PEHD-1.6EKHA2	PEHD-2EKA2	PEHD-2EKHA2	PEHD-2.5EKA2	PEHD-2.5EKHA2			
1	S70 11K 355	Drain pump-94	BG56J144G13	1	1	1	1	1	1			
2	S70 010 533	Cushion	DB26F111H03	4	4	4	4	4	4			
3	S70 K01 523	Drain socket ass'y	BB00P145G17	1	1	1	1	1	1			
4	S70 W28 266	Drain sensor ass'y	DE00H343G21	1	1	1	1	1	1			
5	S70 E69 558	Rubber plug	P312040X01	1	1	1	1	1	1			

10 OPTIONAL PARTS

1. REFRIGERANT PIPES

Part No.	PAC-05FFS-E	PAC-07FFS-E	PAC-10FFS-E	PAC-15FFS-E
Pipe length	5m	7m	10m	15m
Pipe size OD	Liquid:/ø9.52 Gas:/ø15.88			
Connection method	Indoor unit:Flared Outdoor unit:Flared			

Note 1.How to connect refrigerant pipes.
Factory supplied optional piping contains refrigerant at above atmospheric pressure. As long as the connection takes no more than 5 minutes, no air will enter, and there will be no need for air purging.
Remove the blind caps and make the connections within 5 minutes. After the connections for the indoor and outdoor units are made, open the stop valve on the outdoor unit to allow refrigerant gas to flow.
If piping length exceeds 5m, an additional charge of refrigerant is needed.
Note 2.The following main parts are contained in the optional refrigerant piping kit.
Heat insulating cover, vinyl tapes, nipples, sleeve and flange(for wall hole), connecting cables.

2. TIMER

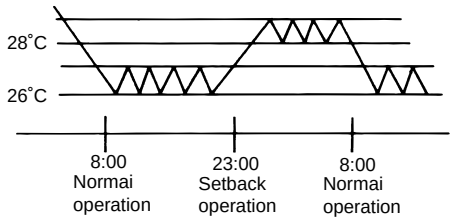
Part No.	PAC-SC32PTA
Model Name	Program timer

2-1 Program timer specifications

Part name	Program timer
Part No.	PAC-SC32PTA
Exterior dimensions(mm)	5-4/32X4-23/32X23/32(130X120X18mm)
Installation	Wall mount
Type of clock	Quartz
Clock accuracy	±50second/month at 25 ˚C
Display-Time	Liquid crystal display
-Week	Liquid crystal display
-Timer setting unit	Liquid crystal display
Program cycle	24 hours
Timer setting unit	30 minutes
No. of set points	48/day
Power rating	5V DC ± 5%(Supplied by Remote Controller)

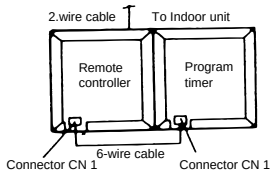
2-2 Feature of program timer

(1) Daily timer function
Daily timer can be set in 30 minute units for up to 24 hours.
Each unit can be set for unit ON, unit OFF, or setback operation.
(2) Setback operation(PAC-SK65PT)
Set back operation is useful for reducing running costs.
e.g.AT a hotel with a 24-hour system
8:00~23:00 Cooling operation with set temperature at 26 ˚C
23:00~8:00 Setback operation with 2 degrees of setback
As shown in the chart on the right, the set temperature rises 2 degrees automatically during the setback operation. When the set-back operation ends, normal operation will begin.
(3) Weekly timer function
Daily timer function can apply to each day of the week.



2-3 HOW to connect program timer

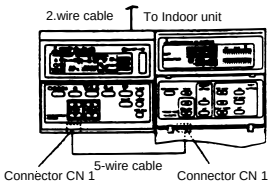
(1) Install the program timer next to the remote controller the same way as the remote controller is installed.
(2) Connect the program timer and the remote controller with a 6-wire cable as shown in the figure below.



NOTE: While the program timer is connected to the remote controller, the 24 hour ON/OFF timer on the remote controller will not operate.

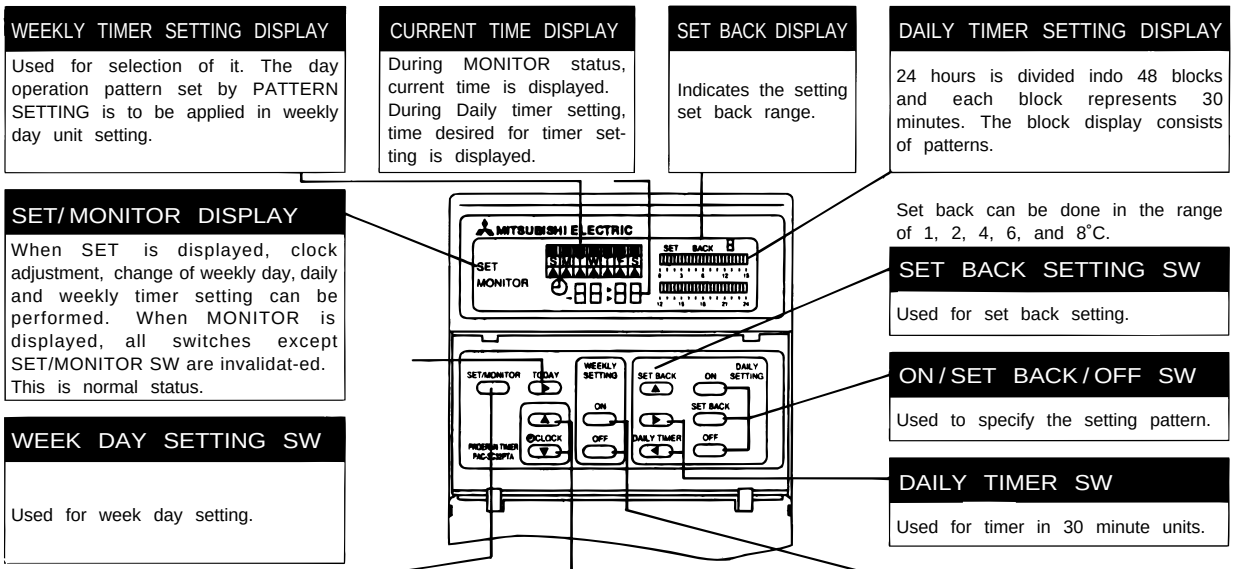
How to connect program timer

(1) Install the program timer next to the remote controller the same way as the remote controller is installed.
(2) Connect the program timer and the remote controller with a 5-wire cable as shown in the figure below.



NOTE: While the program timer is connected to the remote controller, the 24 hour ON/OFF timer on the remote controller will not operate.

2-4 Names and functions <PAC-SC32PTA>


WEEKLY TIMER SETTING DISPLAY
Used for selection of it. The day operation pattern set by PATTERN SETTING is to be applied in weekly day unit setting.
CURRENT TIME DISPLAY
During MONITOR status, current time is displayed. During Daily timer setting, time desired for timer setting is displayed.
SET BACK DISPLAY
Indicates the setting set back range.
DAILY TIMER SETTING DISPLAY
24 hours is divided indo 48 blocks and each block represents 30 minutes. The block display consists of patterns.
SET/ MONITOR DISPLAY
When SET is displayed, clock adjustment, change of weekly day, daily and weekly timer setting can be performed. When MONITOR is displayed, all switches except SET/MONITOR SW are invalidat-ed. This is normal status.
Set back can be done in the range of 1, 2, 4, 6, and 8˚C.
SET BACK SETTING SW
Used for set back setting.
ON / SET BACK / OFF SW
Used to specify the setting pattern.
WEEK DAY SETTING SW
Used for week day setting.
DAILY TIMER SW
Used for timer in 30 minute units.
MODE SELECTOR SW
Using this switch, select "MONITOR" or "SET" Mode.
CLOCK ADJUSTMENT SW
Used for adjustment of the current time.
WEEKLY TIMER SW
Used for setting timer in day or week unit.
MITSUBISHI ELECTRIC
SET MONITOR
SET/MONITOR
TODAY
WEEKLY SETTING
SET BACK
ON
DAILY SETTING
CLOCK
DAILY TIMER
OFF

"MONITOR" : Indicates the current timer setting. All switches expect MODE SELECTOR SW are invalidated then. This is the normal status.

"SET" : Set to "SET" mode for clock adjustment, charge or week day, daily and weekly timer setting.

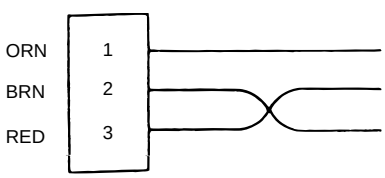
Push SW to advance the time. Each time the button is pushed the time advances by 1 minute, pushing continuously advances by 1 minute at 0.5 second interval, and when the lower digit of minutes becomes 0, indication advances in 10 minute units. SW is used for reversing the time. Each time the button is pushed the time reverses by 1 min-ute, pushing continuously reverses the time by 1 minute at 0.5 second interval, and when the lower digit of minute becomes 0 indication reverses in 10 minute units.

Pushing SW moves the week day light display in order of S→M→T→W··· enabling the week day.

3. TIMER ADAPTER

This adapter is needed for system control and for operation via external contacts. Adapter connection is described on page 27.

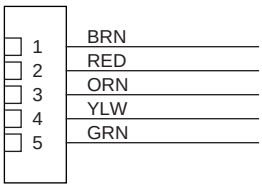
Part No.	PAC-SA89TA-E



4. MULTIPLE REMOTE CONTROLLER ADAPTER

This adapter is needed for remote indication(operation/check.)

Part No.	PAC-SA88HA-E



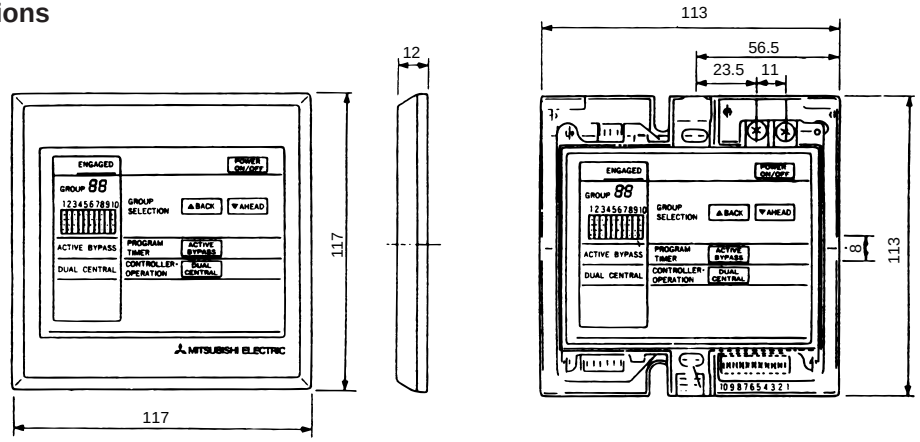
non-polarity

5. CENTRALIZED REMOTE CONTROLLER

Allows individual or combined control of up to 16 units.When using the PAC-805RC, the program timer adapter(PAC-825AD) is also needed.

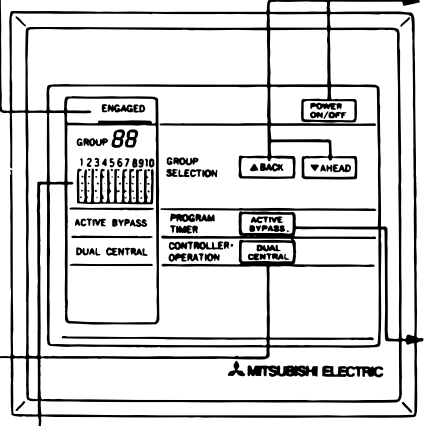
Part No.	PAC-805RC

5-1 Dimensions



Unit:mm

5-2 Functions



"ENGAGED" indicator
When this indicator is lit, transmisson is in progress and all swiches are inoperative.

DUAL / CENTRAL switch
This change-over switch governs the operation of the accessory remote controller.

"DUAL"
Instructions from both the accessory remote controller and the centralized remote controller are valid. (Priority given to the last instruction received.)

"CENTRAL"
ON / OFF switching by the accessory remote controller is invalidate. Operation is controlled by the centralized remote controller only.
Inital setting is "DUAL"

LCD Matrix display
This display indicates the operational status of all connected units either by steady lighting or by flashing.

POWER ON / OFF switch
Operation ON / OFF switch.

▲BACK ▼AHEAD buttons These buttons are used to designate the attached unit (s). (They designate the unit to be centrally controlled.)

- When group "00" is designated ; collective ON/OFF instruction is sent to all units.
- When group "01" - "16" is designated ; ON/OFF instruction is sent only to the designated units.

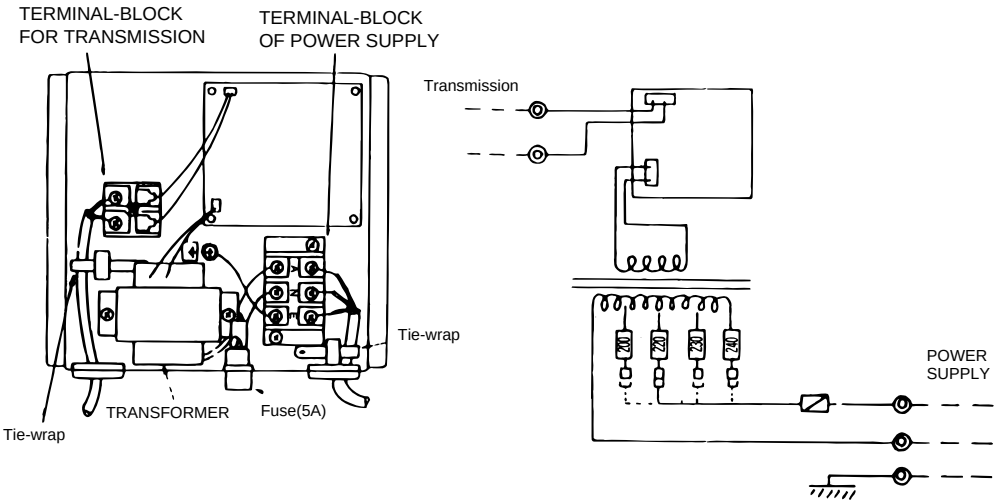
ACTIVE / BYPASS switch
This change-over switch is for the program timer.
Use "ACTIVE" when a program timer is connected.
Use "BYPASS" when a program timer is not connected.

Independent "DUAL / CENTRAL" and "ACTIVE / BYPASS" setting of all the groups is prossible. When the power supply to the centralized remote controller is cut due to power failure, all settings will return to the original "DUAL" and "BYPASS".

5-3 Connection method

(1) Connection in the power supply cord.

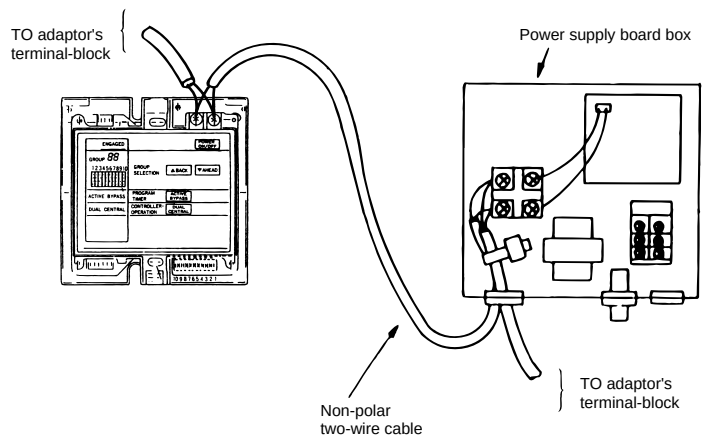
1. Connect the power supply cord to the power supply terminal-block and fix in-place with a tie-wrap. Connect a single phase 200V AC(220, 230, 240V)to ⒶⓃ .
   As Ⓔ is the GND terminal,be sure to ground the earth wire.
2. Connect the transmission line to the transmission terminal-block and fix it in-place with a tie-wrap. Use a ø1.6 (AWG14)or above two-wire cable for the transmission line.
   CAUTION: Never connect the power supply cord to the transmission terminal-block.



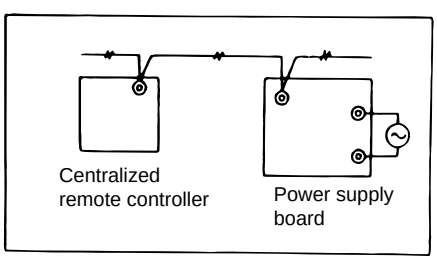
Wiring has to be changed when
a 200,230 or 240V power is used.

(2) Connection method of centralized remote controller and power supply board.

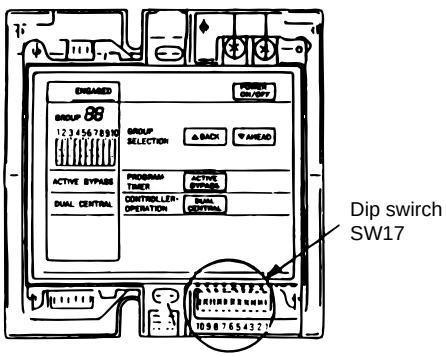
1. Connect the centralized remote controller and power supply board with a non-polar, two-wire cable.



2. Wiring diagram



3. Be sure to set the maximum address number with the dipswitch SW17 on the centralized remote controller.

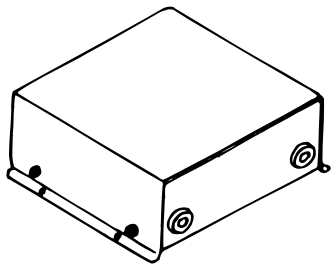
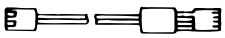


6. PROGRAM TIMER ADAPTER

This adapter is needed when a program timer(PAC-SK65PT)or a centralised remote controller(PAC-805RC)is used.

Part No.	PAC-825AD

6-1 Parts included

① ADAPTER ····· x1	② 3-core cable ····· x1	② 3-core cable ····· x1
	 Length:2m(6' 7")	 Length:2m(6' 7")
	② 4-core cable ····· x1	② 5-core cable ····· x1
	 Length:2m(6' 7")	 Length:2m(6' 7")

6-2 Connection method

Connection and wiring methods differ with the type of the indoor unit used. Confirm the type before carrying out the work.

(1) Connections in the adapter box

1. Connect the power supply cord to the terminal-block and fix in-place with a tie-wrap.
   Connect a single phase 200V AC(220, 230, 240V) to ⒶⓃ.
   As Ⓔ is the GND terminal, be sure to ground the earth wire.
2. Connect the transmission line to the transmission terminal-block and fix it in-place with a tie-wrap(when a centralized remote controller is being used).
   CAUTION: Never connect the power supply cord to the transmission terminal-block.

Fig. 1

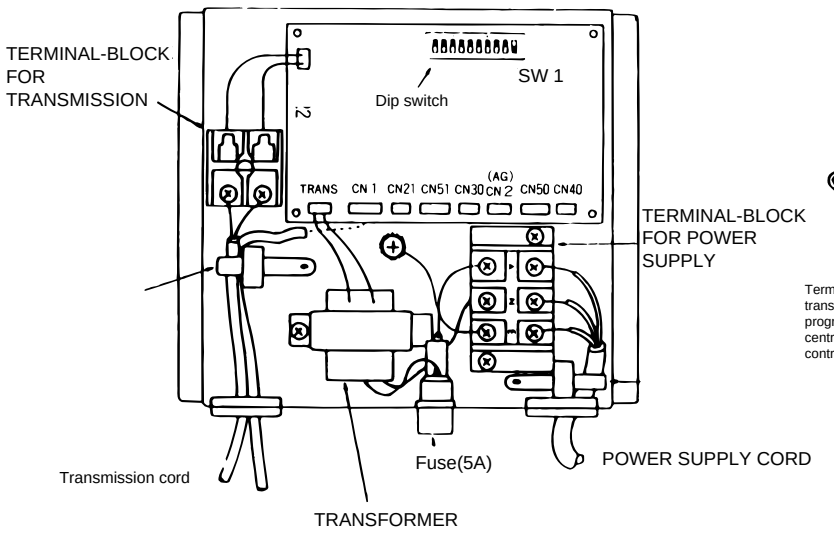
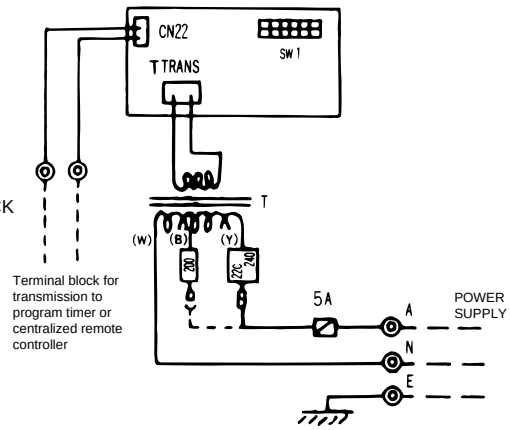


Fig. 2



Wiring has to be changed when 200V power supply is used.

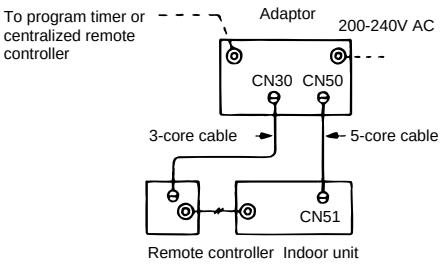
(2) When the centralised remote controller is used, set the address number with the dipswitch SW1 of the program timer adapter.

6-3 Dimensions

(Unit:mm)

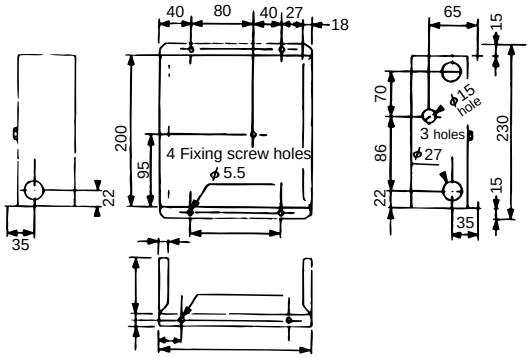
(3)Connections from adapter

Fig. 3



Maximum length of each cable is 10m.

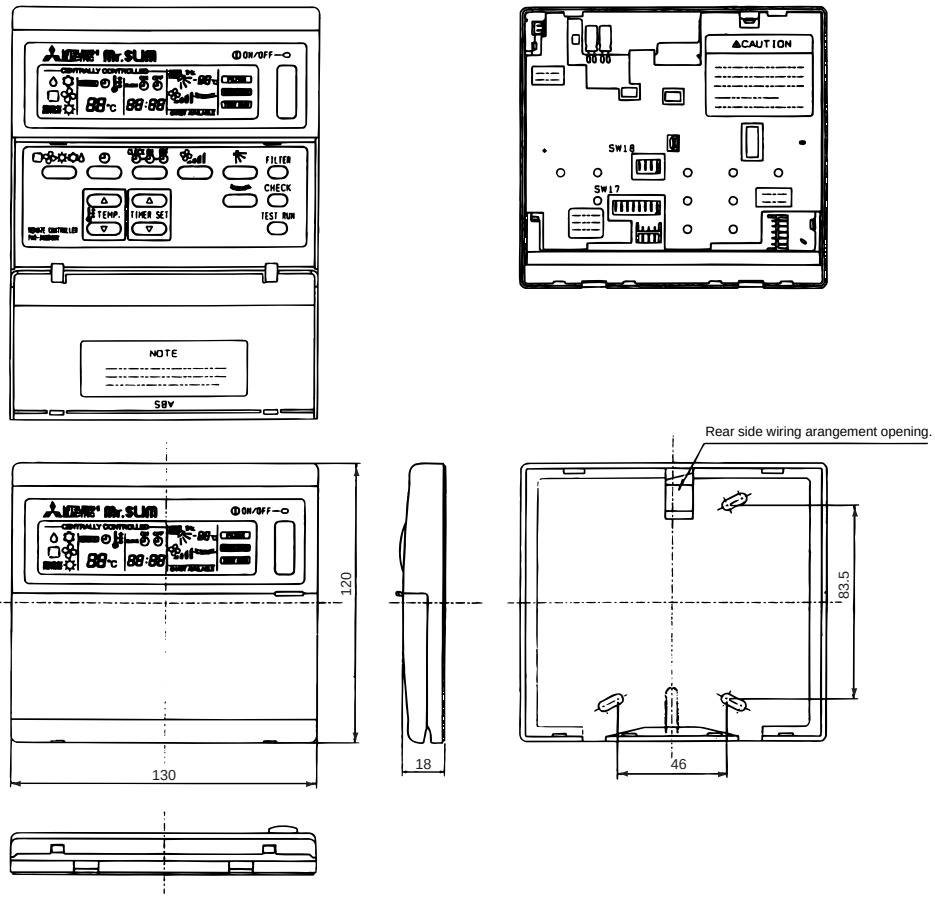
Fig. 4



7. OPTIONAL REMOTE CONTROLLER

This is for the control using two remote controllers.

Part No.	PAC-JH050KA
Applied model	PEHD-1.6/2/2.5EK(H)A2.UK



8. DRAIN WATER LIFT-UP MECHANISM

This allows more versatility when selecting drain piping layouts.

Part No.	PAC-SK002DM-F
Applied model	PEHD-1.6EK(H)A2.UK, PEHD-2EK(H)A2.UK, PEHD-2.5EK(H)A2.UK

Mr.SLIM™

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